

GATEWAY TO INDUSTRY: in the first of a four-part series on links between higher education and manufacturing, John O'Leary looks at the current state of play (page 9)

Cracks in the tablets of stone? **LAW** is enshrined in language but not always in clearly graven letters. Bernard Jackson considers how contemporary semantics has affected our perceptions of legal language (page 11)



TATLIN'S TOWER, his never-built monument to the Comintern, would unquestionably have been one of the architectural wonders of the world, out-Eiffeling Eiffel by a full hundred metres. Norbert Lynton puts the Russian artist's dream in perspective (page 14)

"Culture takes its inspiration from outcasts": the conventions dictate that these outcasts are haunted men; women are seen as serenely untroubled domesticators. But the stereotype is under attack. Tony Tanner reviews Nina Auerbach's **ROMANTIC IMPRISONMENT**, a new study that reveals startling qualities in some familiar fictional heroines (page 15)

Naming, musical structure, IQ, cognition and language, neurological tests, and more: a four-page section on **PSYCHOLOGY BOOKS** (pages 19-22)

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Gateway to industry II
University reform, 18th-century style
Adam Kuper on Victor Turner
Law books

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The overseas question and market forces

The one good thing that can be said about the arbitrary and short-sighted imposition of "full cost" fees for overseas students six years ago is that it has forced higher education to take overseas students seriously. This is not an insignificant compliment. Before 1979, despite earlier rumblings of little-Englandism going back as far as Mr Anthony Crosland's ill-judged decision 20 years ago to charge overseas students higher fees than home students, higher education took overseas students for granted. Their presence seemed to discharge a post-imperial obligation and to confirm the international claims of the university. The question "why overseas students?" seemed to have such a self-evident, answer that it was never properly asked.

That pre-1979 world has been entirely lost. But it is unlikely that Mr Mark Carleton, who as Secretary of State for Education and Science imposed "full cost" fees on overseas students or his chief lieutenant Mr Rhodes Boyson decided the significance of their decision. After all discrimination against overseas students had been official policy since the mid-1960s; the newly elected Conservative Government had a fetish-like obsession with free markets; and the Treasury was demanding cuts in higher education expenditure which could be provided fairly painlessly by charging

The case for overseas students has had to be reconsidered from its foundations up

overseas students more for their tuition. In fact this mindless decision set off reverberations that show little sign of dying away. First, "full cost" fees have altered radically the political economy of higher education itself, not just its economy but its politics too. It is not simply that the supplementary income produced by overseas students provides many institutions with the vital margin of free money they need to stay in business; in far too many cases managing higher education today has been reduced to manipulating cash flows.

It is also that the application of free market principles cannot be contained within a cordoned-off corner of higher education labelled "overseas students". Already two classes of student have been produced - home students whose number is strictly controlled and whose presence in higher education is justified within the old mixed-economy tradition of civic advancement and individual achievement, and overseas students whose number is uncontrolled and who are in Britain as paying customers. The consequent tension is a source of inexorable instability. Already the more famous institutions are charging more than the less famous ones for overseas students; these standard fees if the University Grants Committee, the Department of Education and Science, and the local authorities overcome their timidity for market forces. Again, administrative and financial instability is inevitable. Finally, of course, the whole question of tuition fees for home as well as overseas students will inevitably be re-opened; the odds-on result will be their outright abolition with uncomfortable consequences for institutions. To borrow the lines of an old campaigner, "you ain't seen nothing yet!"

Second, the imposition of "full cost" fees has disturbed Britain's international relations to a degree that the DES in its parochial innocence back in 1979 could never have imagined. Again it was not simply the Malaysias, Hong Kongs and Cyprus which were particularly dependent on Britain for meeting their higher education needs. It was also that the 1979 decision seemed to too many of Britain's overseas friends evidence of an alarming trend towards little-Englandism, a trend that has been wretchedly confirmed by the xenophobia and racism that seem to have become endemic in 1980s Britain.

As a result, the Government has not been able to maintain its original hard-line free-market position on overseas students' fees. The political damage was too formidable. The "full cost" principle of courses has been affirmed. The Foreign and Commonwealth Office has spent the last five years struggling to repair the worst of the damage inflicted on Britain's international reputation and overseas trade by the 1979 decision. The FCO's ameliorative approach has been to devise scholarship and aid programmes, the most prominent of which was the so-called Pym package announced in February 1983. This approach has achieved its political goal of defusing overseas, and especially Commonwealth, criticism of Britain. But if anything it has made it even more difficult to recover a coherent policy for overseas students.

Third, "full cost" fees shattered the old consensus. The traditional arguments for overseas students were swept aside. They were exposed as an ineffectual defence not just in political but in intellectual terms too. Often these old arguments had a retrospective quality that failed to carry conviction in the cold climate of the new Conservatism, or had grown blunt through long disuse. Harsher critics denied that their arguments had ever been made for overseas students; instead higher education had relied on a semi-conscious prejudice in favour of overseas students based on little more than their historic presence in Britain. Since 1979 the supporters of overseas students have been forced to tough-minded, sharp-edged and thoroughly modern. These arguments have had to reflect; not that mixture of duty and guilt which characterized the imperial after-glow, but a pragmatic appreciation of both the needs and obligations of a medium-sized northern European nation which is crucially dependent on overseas trade and advanced technology and which, despite economic disappointment, is still a formidable centre of world science and the home of one of mankind's most powerful cultural traditions. So the case for overseas students has had to be reconstructed from its foundations up.

It has been a bruising business, but necessary. By organizing two Ditchley Park conferences, the most recent in March, the Overseas Students Trust has made a notable contribution to the development of a new agenda. The solid and credible justification of overseas students that cannot simply be swept away as happened in 1979. At seriously rather than for granted. Higher education has a central role in rebuilding the case for overseas students, which so far it has been reluctant to play. There have been two reasons for this reticence. First, because of the cuts higher education has a vested interest in high fees for overseas students. Universities, polytechnics and colleges for selfish but inescapable reasons have been reluctant to agitate too strongly for any change of policy on a loss of replaceable income. Second, higher education's self-confidence has taken such a battering in the last five

years that it has chosen to rely on other than academic reasons for overseas students because they seemed more palatable politically. So the case has been made in terms of international trade, aid to the third world, and cultural diplomacy.

Both reasons are beginning to lose their force. More and more people in higher education have come to realize that overseas students cannot be treated as a nice little self-contained money-spinning subsidiary. As a result they appreciate the need to build back the case for overseas students into the larger case for higher education. Because arguments about trade, aid and cultural diplomacy are little help here, proper academic arguments for overseas students are having to be developed.

In fact, there is no shortage of such arguments. What has been lacking up to now is higher education's confidence to deploy them. First, the presence of overseas students fosters an internationalist outlook among British students. Second, many subjects - languages, area studies, and so on - cannot profitably be taught in a mono-lingual, mono-ethnic, monocultural environment. Third, the presence of overseas students helps to test the validity of higher education against world standards. Fourth, they introduce different and challenging intellectual traditions from which we have much to learn. Fifth, as research students they help with research that serves our national interests. Sixth, they enable rare sub-

As research students they help with research that serves our national interests

jects to be taught in economically and intellectually viable groups. This list of academic reasons for welcoming overseas students to Britain can be elaborated and extended. None of these reasons of course answers the crucial questions for overseas students policy. How many? From what countries? In what subjects? Who pays? But colleagues do begin to establish the outlines of a higher education view distinguishable from the "national interest" dictated by the FCO or the Department of Trade and Industry. At present just over 5 per cent of students are from overseas, many fewer than in 1979 but a stable or gently rising share. Most people in higher education would prefer a proportion twice as great. They need to explain why, clearly and cogently.

The origins of overseas students have become a jungle - students from rich countries, or rich ones from poor countries, are recruited in a "full cost" world and most European students are excluded because under Common Market rules they count as "home" students. This pattern makes little sense in financial terms. On subject students the "national interest" dictates "academic interest" students in all culturally-inward arts and social sciences. As for students of overseas students higher education should be sufficiently self-confident to insist that there is an academic dimension to this question, alongside the aid, trade and diplomatic dimension, which is truly in the national interest. But to be believed, higher education must first

Laurie Taylor



That's fine everybody. Now Professor Lapping, I said "listen for my handclap. That's the lie on the floor where you are." Relax Good.

Well, how did we get on our improvisation? Not too bad. Not too bad at all. What's trying to do, as you'll recall, simulate a normal conversation. Full marks to Doctor Quinton, who gave me a very reasonable 10 minutes on the respective changes in Liverpool and Everton in the championship race. One slight though, Doctor Quinton, it's Rush, not Bruce. Only a detail, but can be a giveaway.

And congratulations to all everyone on general circulation duty. Apart from some slight difficulty at the beginning of the session when Professor Mori, Doctor Bogg and Doctor Trellis went into a unfortunate huddle for nearly 10 minutes, there was a welcome readiness to move around the room, and what's more to move at that slightly increased pace which does so much to give the impression of normal walking.

While we're on general deportment - Professor Lapping, do try and relax. You may find it easier if you uncross your arms. That's it, yes, on the subject of general deportment, there are still one or two problems with listening. After asking a question - something like Doctor Bogg's interesting offering, "What sort of chance do you think the SDP have at Fulham?" - you should at least give the impression of listening to the answer. All that's needed is the occasional nod or grunt of agreement, and perhaps a slight inclination of the head. Do try and get away from the traditional seminar posture of staring blankly out of the nearest window. And also remember - and more black marks here, I'm afraid, for Professor Lapping - that it is not normal in an informal conversation to invite your partner to take down a list of references OK?

Vocabulary was also much improved. Only 15 "argubly", a mere dozen "in a sense" and no more than half an "epistemological" - a sign of the tongue I think Professor Dorebridge thought so. Incidentally, do be careful when describing some of the more esoteric aspects of university life. The word "reader", for example, often causes problems. "Internal examiner" is frequently misunderstood, and as Doctor Pincemuller should have realized, there is almost no way in which the term "sabbatical" can be made completely explicable to outsiders.

That's about it then. Let's recap on what we've learned this week. Sitting up straight. Talking and listening. Moving at a reasonable pace. Smiling. Keeping out of bad-lands. Saying goody and hello. Ordering a round of drinks. Now, there's nothing else to do but go home and have a good night's sleep. Then in the morning - remember - not too much corduroy, check the length of your trousers, bring in one copy of each of your books for the display stand, and think "normal". That way we can all have a simple handclap Professor Lapping - Dismiss.

© TIMES NEWSPAPERS LIMITED, 1986
Published by Times Newspapers Limited, P.O. Box 2, Weybridge, Surrey, Middlesex, TW20 0EX.
Typesetting by ComputerGraphics Ltd, 21-23, Abchurch Lane, London EC4N 3DF.
Printed by Mercury Colour Press, Upper Mount, Northampton NN1 6JH.
3HR, Friday, April 4, 1986. Registered as a newspaper at the Post Office. ISSN 0046-352X.

The Times Higher Education Supplement

April 11, 1986 No 701 Price 65p

A fighting force for adults

by Felicity Jones

Plan to harness the skills of a disorganised army of educational guidance workers and turn them into a national and coordinated fighting force have been put forward in the first major report by the Unit for the Development of Adult Continuing Education.

The report which stems from an 18-month study and consultation exercise carried out at the request of the Department of Education and Science calls for a two tier system of collaborative networks of existing agencies involved in guidance for adults.

It argues that individuals and providers will benefit from a nationally available service built upon "the good, but patchy and uncoordinated work of many existing agencies", including educational advice services, libraries, careers services, jobcentres and training providers.

At the local level, UDACE envisages the setting up of formal collaborative networks in which careers, library and educational guidance services will act as core agencies to develop them. Local education authorities at an estimated cost of up to £80,000 should fund local educational guidance units to support and service the network and run direct provision on a pilot basis.

National level the report recommends the establishment of a parallel unit to cover England and Wales. This would be headed by the DES, Welsh Office and the Department of Employment with an annual budget of £200,000 to support a small team of developmental staff. It would encourage good practice, sponsor training and provide a forum for all concerned in educational guidance.

Dr Donald Grattan, chairman of UDACE said that the report's recommendations were realistic and practical and did not call for large amounts of cash. "We argue that both the 'customers' and the providers of education and training will get better value for money if a well organised and coherent service is available", he said.

He recognises that a successful new scheme will lead to increased demand for education and training but believes it to be in the national interest that more adults engage in learning.



Double bid to soften blow of proposed NAB cuts

by John O'Leary

The Government is to make a two-pronged effort to reduce the level of cuts planned for polytechnics and colleges following strong criticism this week of the proposals for 1987-88 made by the secretariat of the National Advisory Body.

Civil servants will try to argue down the number of places to be lost in the latest NAB planning exercise at talks still to be arranged with the body's officials. And there are hopes that next year's advanced further education pool will be increased by more than the £23 million already signalled by Sir Keith Joseph, Secretary of State for Education and Science.

Although the eventual size of the pool hinges on the wider negotiations on local government spending, the Department of Education and Science will press for extra funds for public sector higher education. There is no likelihood of the full £23 million shortfall identified by the NAB being made up, but a further increase would allow a significant proportion of the 9,400 lost places to be restored.

Both Sir Keith and Mr George Walden, his under secretary and chairman of the NAB, stressed in the House of Commons that no decisions had been taken to cut places in polytechnics and colleges, deflecting the blame on to the NAB secretariat. However, Opposition spokesmen insisted that they would not let the Government off the hook. Mr Neil Kinnock, the Labour leader, described the proposed cuts as the action of "a yob government" and Mr Giles

Radice, the shadow education secretary, demanded a full Commons statement. The plan, which will be discussed by the NAB board next week, would bring about one institutional closure, at Rose Bruford College of Speech and Drama, and a series of mergers. One involves an ambitious proposal to link Plymouth Polytechnic, the College of St Mark and St John, Rolle College and the Exeter College of Art and Design. A dozen other colleges would lose all advanced courses, but would survive on their non-advanced work.

The recommendation effectively to close Rose Bruford, at Sidcup, Kent, comes hard on the heels of a glowing report by Her Majesty's Inspectorate and just as merger negotiations with the City of London Polytechnic were nearing completion. Mr Jean-Norman Benedetti, the principal, said that all three courses in theatre arts and stage management were accepted as vocational and unique, but that the college was being penalized for being too small with 168 students.

Mr Christopher Ball, chairman of the NAB board, said of the plan as a whole: "I very much regret that it has been necessary to plan at this stage for a severe cut in student numbers but we have to do it if we are to maintain the quality of provision in the public sector. I hope that the Government will find the funds we need to enable us to reinstate the important parts of the provision which are at present to be sacrificed and to develop other badly-needed work."

Mr Peter Dawson, general secretary of the National Association of Teachers in Further and Higher Education, which revealed details of the proposals, blamed the Government for the cuts. Details, page 5 Leader, back page

Most of Scotland's eight universities are to oppose a single planning and funding body for Scottish tertiary education. This is revealed in the response of the Standing Committee of the Scottish Universities to the report of the Scottish Tertiary Education Advisory Council, which proposes an overarching body to be responsible for the universities, central institutions and colleges of education.

The standing committee does not elaborate on which way each university has voted, but so far Aberdeen, Dundee, Heriot-Watt and St Andrews have issued statements opposing the

single body, with only Strathclyde backing it. Stirling is also expected to support the proposal, but Edinburgh is set to reject it, producing a majority against. It is still unclear what Glasgow's response will be. Its principal, Sir Alwyn Williams, was a member of STEAC, and issued a personal statement supporting the single body, but Glasgow's original evidence to STEAC stressed that it wished to retain funding from the University Grants Committee.

The standing committee stresses that there is a general view among the universities that the STEAC report contains a great deal of perceptive and constructive analysis, and it welcomes "the persuasive arguments" that earlier government projections for demand for higher education have been too pessimistic.

The universities agree that there should be further improvements in access for mature students, "including sensible developments in credit transfer arrangements."

The standing committee adds that it strongly supports STEAC's view that there must be adequate levels of student support. It also agrees with STEAC's warning that the emphasis on scientific and technological courses "which has become quite pronounced in universities in recent years, partly as a result of government-stimulated funding provisions," should not be allowed to diminish provision in the arts and other subjects.

"The traditional breadth of academic provision in the Scottish universities remain something to be cherished."

Trying out the domino theory

by David Jobbins

Stirling University's rag committee investigated the domino theory last weekend, and claimed a British record with a total of 61,414 toppling dominoes in an unbroken line which took three days to erect in a local school gymnasium.

London accused of race bias

by David Jobbins

Some London University medical schools have operated admissions policies which discriminate against non-white and female students, two academics have claimed. A study of students taking final examinations over a three-year period showed that some schools had a consistently smaller proportion of non-European students than others. Other schools appeared to have a lower proportion of women students than others.

The authors of the study, published in the latest issue of the journal, *Medical Education*, claim that their conclusions only confirm what minority group students have already suspected. They call for changes in procedures to right the injustice.

Dr J. G. Collier and Dr A. W. Burke believe that the correlation between the two lists of schools with relatively worse records is so strong that both are the result of an "orchestrated admissions policy."

The authors say: "It is unlikely to be by chance that the schools with the highest non-white intake also have the highest female intake, unless of course all non-whites were female. But if anything non-white students tend to be male."

They claim that at some schools admissions procedures are failing to provide equal opportunities as defined by the Race Relations Act. They examined the final MB BS examination lists for the university over a three year period from 1982-1984 and classified students' names as European or other to approximate with racial origin. Similarly, students were classed as male or female by their first names, taking advice on foreign names.

Westminster had the lowest proportion of apparently non-European students. continued on page 3

Fate of the voluntary colleges, 14

by Olga Wojtas
Scottish Correspondent

Most of Scotland's eight universities are to oppose a single planning and funding body for Scottish tertiary education. This is revealed in the response of the Standing Committee of the Scottish Universities to the report of the Scottish Tertiary Education Advisory Council, which proposes an overarching body to be responsible for the universities, central institutions and colleges of education.



A few weeks ago I made a rash prediction in this column that the Settle-Carlisle railway would survive - and even that I believed the Railway Board wanted it to do so. Reading accounts in the press of the public hearings into the proposed closure of the line, I have my doubts. But the inquiry, like all such inquiries, should with any luck continue for many months or years; and since there have been objections from six MPs, 107 local authorities and some 7,129 individuals there should be ample evidence of its popularity.

For me the railway has for many years meant romance and victory, and I will tell you why. It was a late line - not the last one but almost so. It was opened on May 1 1876 after one of the great engineering episodes of history. Navvies came from Ireland (as usual) but also back from the United States where they had worked on the railway across the great plains.

At Selside in Ribblesdale there is a group of cottages known as Salt Lake, because the inhabitants of the camp had come directly from Salt Lake City. In the church at Chapel-Date there is a handsome memorial with the names of the navvies who lost their lives during the construction of the Ribblesdale viaduct. Local accounts are of a hard working, harder drinking and utterly casual lot of men who just said "Cheerio" as they fell off it to their deaths.

The line goes through the most spectacular scenery, sometimes carved into great green slopes, sometimes windswept and desolate, always unexpected and memorable as it climbs and falls to the plains before Carlisle. It was on that line that I scored my victory.

One autumn day in the late 1960s I took my children by car to Settle, left them and boarded the train for Carlisle for an outing. We planned to stop often, climb down into villages, have a picnic and crawl back from Carlisle tired and happy at the end of a long day. That is what happened. It was an unforgettable day.

What made it more unforgettable for me was that just after the train set off I discovered that I had left my cigarettes (and small cigars) at home. I was a compulsive smoker, inhaling at least 20 cigars or more cigarettes a day.

By the time the train reached Horton-in-Ribblesdale I was beginning to feel desperate. And there on the platform, just watching trains go by, was a friend who also smoked heavily. As soon as the train stopped I leaped out of the window and asked if he could give me a cigarette. "Of course," he replied instantly, reaching into his pocket, found nothing there and said, "Terribly sorry, I must have left my cigarettes at home".

It is impossible to explain to anyone who has not been a compulsive smoker the horror of the shock. At last, I thought, I understand the horror when the citizens of Edinburgh heard that the Scots army had lost the battle of Flodden.

I decided that I could not go through another experience like that. When I reached home late in the evening I found my cigars and cigarettes and threw them into the fire. And because I was an addict (for which there is no complete cure) I have never ever taken a puff since. Perhaps I will give evidence at the inquiry.

Patrick Nuttgens

Letters to the editor

Home truths about overseas students

Sir, - Your editorial of April 4 approached the question of overseas students from the geographic viewpoint which has traditionally conditioned discussion of the issue. While you rehearse the arguments for having overseas students in British higher education institutions you do not address the issue of why they should leave their own countries to come and study here.

The imposition of full cost fees has had a twofold effect on many third world countries. First, the increased cost of other countries competing with Britain for overseas students has opened up new choices for the third

world student with other European countries offering better grants, reception facilities and language tuition and even courses taught in English. Second, the higher costs of overseas study have provided an additional incentive for home-based courses.

If the academic argument for encouraging overseas students to study in Britain is to advance beyond mere self-interest, the educational needs of third world countries must be given greater consideration and a less patronizing view be developed of their higher education institutions. These institutions have similar problems to those

in Britain; the same arguments about the effective use of resources, the relevance of their educational programmes to the market place and their role as a community resource are being deployed against them. If we respond in Britain with arguments of academic integrity, excellence and responsibility why do we not feel the need to support such arguments in the third world?

The question of educating overseas students in Britain must consider more carefully the division between what should be taught in Britain and what could best be done in the home-based institute. Given such clarification, a

policy could be developed to assist specific teaching programmes in particular and proper overseas students, and the context of the long-term strengthening home-based education.

Without a coherent overseas students are more than fodder.

Yours faithfully,
IAN HAYWOOD,
3 Eglon Mews, London NW1



Adult education: not a "profitable" commodity

commodity and is unlikely to survive in the market place without the support of the RB grant. At best, what will remain will be a token plume on the body of the new continuing education.

This destruction of extramural education will not benefit or enhance other forms of continuing education which your reporter quite rightly praises - including better access to higher education generally for mature students, and intensive post-experience vocational education and updating courses. It will merely have removed a valued sector of the "vast

spectrum of continuing education" - incidentally a sector much admired by many American adult educators whom we are exhorted to emulate!

I would suggest that the extramural system is not so much outmoded as in RB grant can again be directed to the very large number of people who still do not get their share of tertiary education.

Yours faithfully,
ROGER FIELDHOUSE,
Leeds University.

Assessment

Sir, - Your article in bold-faced letters concerning students' assessment at Royal Holloway College, London, (11 March 21) seems to give the impression that this is some sort of new idea. In the department of psychology the students have been assessed at the end of each course, each year and each session since 1969.

When we entered our new building in 1965, we set up a student council which we think may have been the first in any university in the UK to contain elected student members representative of members of staff, of former in the majority.

It was student members in 1969 who first suggested course assessment. It was approved by the members and first used in December 1969. It has been developed and refined by the council and has been found to be a most valuable feature of the department.

Council early on agreed that while witty comments were acceptable, volubility was to be discouraged. The students treat the assessment questionnaire forms seriously and the response is often more than three-quarters of the class members. Lecturers are sometimes charged by what they get back, but most agree that criticism is valid and that they can as a result and with luck, next time find that they are both audible and lively in delivery and write legibly on the board, etc. etc.

I am, Sir,
J. F. ALLEN,
Department of Physics,
University of St Andrews.

Language cuts

Sir, - In their front-page report of Professor Martin Harris's revelations University Grants Committee plans for rationalization of small language departments (THES, March 28), Peter Aspdon and Karen Gold put two and two together to make a misleadingly rose.

When they wrote that Scandinavian studies would "go from four to five departments", they were interpreting Professor Harris's words in the most generous of lights. What he actually said, was that one new department would be created, making a final total of five.

This in fact represents a net reduction in the number of departments operating nationally. What Professor Harris failed to mention was that Scandinavian studies is currently taught at eight British universities.

Yours faithfully,
SARAH DEATH,
85 Edwa Road,
Meopham, Kent.

Unlisted

Sir, - I have been urged to write to you by the numerous colleagues who have noticed that your list of "40 new fellows" (THES, April 4) contained only 39 names, mine having been omitted.

Yours faithfully,
JEAN O. THOMAS,
Department of Biochemistry,
University of Cambridge.

Letters for publication should arrive by Tuesday morning. They should be as short as possible and written on one side of the paper. The editor reserves the right to cut or amend them if necessary.

Pay: V-Cs hold out for reforms

by David Jobbins

Vice chancellors have ruled out an early pay offer to university lecturers and are convinced that more progress must be made on structural reforms before Ministers can be convinced to help tackle salary erosion.

Leading vice chancellors considered making an offer to the Association of University Teachers to clear the decks for joint efforts on the case for more resources in this summer's public expenditure round.

But in the absence of a formal pay claim from the AUT, they decided against action and are to carry out consultations with their colleagues before taking a final decision.

But they believe there will be no extra resources for the immediate pay round and feel that only a commitment to greater local flexibility and salary differentials between subject areas will be enough to convince Ministers that money should be made available to tackle general pay levels in the 1987/88 salary round.

Both sides are pinning their hopes on a jointly-financed independent study of recruitment, retention and motivation problems associated with falling salary levels among academics.

A pilot study at six universities was completed last week and the consultants, PA Personnel Services, are to embark on a full-scale survey at the

same institutions to find evidence for the view shared by both sides that damage is being done to the system. Vacancies are also being systematically monitored and the consultants movements outside the university sector.

Their report is due in four weeks - to meet the deadline set by the public spending round for 1987/88.

But a senior management official made clear this week: "The view of the whole of this side is that it is not possible to offer something on account. There is no additional money."

The evidence placed on structural reform as the key to the possibility of more money places the AUT in a

difficult position. Its proposals, which centre on a common career grade comprising the lecturer and senior lecturer scales, have been turned down in the universities and its national council has rejected the employers' proposals.

Nevertheless, talks have taken place, with more due later this month, and the employers are said to be satisfied with the climate in which they are taking place.

The employers want to retain national bargaining but allow universities greater freedom to use shorter pay scales to introduce local flexibility and a finer response to market trends, with differential salaries for subject areas a distinct possibility.

Bart's urged to reconsider joint plan

Pressure is increasing on St Bartholomew's Hospital Medical College to reverse its decision to pull out of a scheme to establish a new pre-clinical school in East London.

The "BLQ" scheme, which envisages a joining of forces between St Bartholomew's, the London Hospital Medical College and Queen Mary College, has the support of London University and the University Grants Committee, but its future has been in doubt since St Bartholomew's suddenly pulled out of discussions last October.

But now a fresh report on the plan, prepared by the Dean of the London Hospital College, Professor Michael Floyer, stresses that the inclusion of St Bartholomew's is desirable from all points of view. If the college decided to stay out of the scheme, it would become "isolated and vulnerable to closure", says the report.

The chairman of the University Grants Committee, Sir Peter Swinnerton-Dyer, has already said that if the scheme went ahead without St Bartholomew's, it would "only be on the basis that future recurrent grants to the university will contain no provision for a separate pre-clinical school at Bart".

Sir Peter said in a letter to the vice chancellor of London University, Lord Plovers, that the St Bartholomew's withdrawal was "both a shock and a matter of serious concern".

Pressure on members of the Association of University Teachers at St Bartholomew's has also come from the union's national office. The AUT London office, Mr Malcolm Keigh, has warned that members faced "uncertainty and insecurity" if the college was excluded from the BLQ scheme.

Members of the AUT at the other two colleges have endorsed the findings of Professor Floyer's report and are also keen for the scheme to go ahead as originally planned.

The new school, in the Mile End Road, would have a total intake of 255 students - 200 medical and 55 dental - in the event of the three colleges linking up. But 105 of those medical students would come from St Bartholomew's, making it an essential component of the plan.

Now the university's medical advisory committee, which meets on Tuesday, has to consider if and how the scheme can go ahead with only two colleges. The UGC has already made it clear that it is too late to change the scale of the project.

Colleges will take fight to save town planning courses to Sir Keith

Two of the public sector institutions whose town planning courses are threatened with closure for the second time are to make strong protests to the Secretary of State for Education.

Both Coventry Polytechnic and Essex Institute of Higher Education (formerly Chelmer) stand to lose their courses if proposals by the University Grants Committee/National Advisory Body transitory working party on town planning published last week are implemented. This recommends the closure of seven departments or town planning courses.

Courses at Coventry and Essex were reviewed on grounds of quality and specialization after having been earlier marked for closure by the NAB in its 1983 review of town planning.

Dr Geoffrey Holroyde, Coventry Polytechnic director said he was very unhappy and surprised at the proposal since the quality of the course was so well recognized and was even acknowledged in the working party's report.

He said: "What bothers me is, how do we motivate people to produce good results, if they find that their heads are on the block for quite other reasons?"

On the surface the report appeared to be even-handed as far as the numbers of universities and polytechnics losing their courses were concerned. But when you looked at provision between 1984 and 1987, you could see that the polytechnics' intake had not chosen an intake of 24 full-time equivalent students.

Considering that the college was in

driving students away from the cheap polytechnic education to the more expensive university education at extra cost to the taxpayer," Dr Holroyde said.

Dr Mike Salmon, director of the Essex Institute said that the loss of their course would mean that the whole of East of England would have no degree in town planning.

He pointed out that the course had been replaced last time because it had a rural specialism. This was still the case. Moreover, the degree as part of the school for built environment met the criterion of relevance to other cognate disciplines, while on viable

else criterion it had been limited and had not chosen an intake of 24 full-time equivalent students.

Considering that the college was in

an area which had the fastest growing construction industry in the country, the loss of the degree would badly affect the professional development of town planners, as well as the institute's research programme.

Reading University, whose post-graduate course in environmental planning is threatened with closure, said that it strongly objects to the assumptions, particularly on "critical mass", made in the working party report.

Mr Simon Thorne, the sub-dean of the faculty of urban and regional studies, said that if this criterion was applied widely then most interdisciplinary courses feeding on other strong disciplines around them would be axed. The course had only just been

assessed by the Royal Town Planning Institute and had passed its review with flying colours.

Mr Thorne stressed that the course would be offered in 1986 and that other courses in the school of planning studies and the faculty were quite unaffected.

The Inner London Education Authority's deputy education officer, Mr David Falcon, said that the authority viewed with great alarm the proposals to reduce the provision for town planning in London.

Before responding to the NAB's invitation to have discussions with University College about a centre north of the Thames, the authority would want to examine in great detail the report of the transitory working party.

Independence of HMIs threatened

The independence of Her Majesty's Inspectorate is constantly threatened by the Department of Education and Science, Dr Clive Booth a former HM Inspector and now director of Oxford Polytechnic told the Association of Polytechnic Administrators.

The inspectorate was a constitutional tool of the Secretary of State for Education and Science, who used it legitimately in asking for advice that informed policy. But inspectors' reports were looked at by officers in the DES before they were published.

There is a tendency for officers of the DES to want to influence what inspectors write," Dr Booth said. "Up to now inspectors have been successful in telling the DES to get lost."

"But there is a risk the inspectorate will get too close to the DES. Some inspectors feel there is no point in saying 'capital and equipment in college X or the sector as a whole is at crisis level', because the DES will not allow us to publish it. I am not saying that has happened, but there is a risk."

Many HMIs were unhappy at their advisory role in rationalization exercises and the National Advisory Body, because institutions increasingly saw them as people who determined closures, he said.

At the same time there was a tendency for HMIs to make flying 24-hour visits to institutions, followed a few months later by a NAB report on rationalization.

"You can't help but worry about the basis on which the judgements were made," he said.

But the advantages in having independent inspections - something the universities did not have and should have - outweighed the disadvantages, he said. "I think there is more risk to public sector higher education if HMIs were not there to advise and contribute, than there is when they are."

Don't rush it, polys told

Polytechnics should not rush to dismantle the binary line until they were sure of competing in a unified higher education system.

Miss Sheila Browne, principal of Newnham college, Cambridge, and former senior chief HM Inspector said this week:

"I think you would lose much more than you would gain if the progress to a single system came too soon," Miss Browne told the Association of Polytechnic Administrators' annual conference.

"I have very little doubt that by co-operation, consultation, and much more self-awareness on the part of institutions, the higher education system including the Open University is growing towards a single but complex system," she said.

"But at present I hope there will be more time allowed for the various institutions to discover and explore their potential strengths before any form of unification is attempted."

Many students saw the institutions of higher education as qualifications factories, she said. That really was a downgrading of higher education unless the qualifications were liberally gained and delivered.

That would be less likely if the pressure to increase science and technology courses meant arts courses were less well represented.

'Race bias'

Continued from front page
dent over the period, with 7 per cent in 1982 falling to 3 per cent in 1984. The school has now merged with Charing Cross, which comes midway down the list of 11 schools then in existence with an average of 9 per cent over the three years.

Apart from Westminster, four schools - Guy's and St Thomas, London, St Bartholomew's and St Mary's - averaged only 7 per cent over the period while St George's (12 per cent) and the Royal Free (16 per cent) had the highest proportion.

Medical school administrators denied that discriminatory admissions policies were being operated.

UGC stops Croham clock

The timetable for the Croham inquiry into the University Grants Committee has slipped because the UGC is so busy finalizing its new funding policy.

Croham had originally hoped that management consultants Coopers and Lybrand Associates could start a study of how the UGC works in April.

But the UGC has put them off until June because of their pre-occupation with the funding and selectivity exercise, which culminates in May with the sending out of letters detailing this year's recurrent grant allocations.

Coopers and Lybrand have been asked to analyse and report on the

procedures adopted by the UGC for the allocation of resources to universities, and their operations in practice; the functions and methods of operation of the sub-committees; and the staff of the UGC; and all of these with particular regard to the efficiency, economy and effectiveness of the UGC, the fulfilment of the UGC's terms of reference and the adequacy of the means for doing this.

Croham has now finished taking evidence although still has a number of visits planned. A two-day retreat has been planned for the end of July but the report is unlikely to be ready until late autumn at the earliest.

Coopers and Lybrand have been asked to analyse and report on the

DON'S DIARY

MONDAY

Read *The Times* on the train to work. Don't read "Don's Diary" as a rule, usually some senior lecturer from a southern university writing about all that's well with the world and what a nice time they are having. This does not change with my reality, therefore usually skimmed over. Today's however was by a temporary lecturer from Scotland pondering his fate in the US. Brings back memories of being in the same position a couple of years ago. Post-due in Boston sounded fine, \$25,000 sounded even better - but it was a long way from home. Glad to get a job here at the time. Reflection sparks off re-appraisal. Prepare a list of pluses and minuses concerning present situation. Quickly abandon idea as the minuses won 9-1. Settle in to read over morning's lectures.

TUESDAY

Draft letter to *The Times*. Incensed by comment in the letters page indicating that research and development have no definition and hence no place in modern science and engineering. The answer to the current industrial malaise it appears is to train twice as many graduate scientists as engineers. It never fails to amaze me that some people do not make the connection between new technology, ideas and research.

Without the research base the rest eventually come to belong in a museum. Am reminded of the anecdote about the 19th-century New Yorkers who predicted that by 1920 they would be neck high in manure. As a consequence the 20,000 manure sweepers that were predicted to be required were trained post haste. Regrettably for the unemployment rate among such professionals the new technology was invented elsewhere. Pull out grants, file, re-read form but firm letters of rejection. Regret that alpha rating does not pay for research assistance.

Mentally begin to prepare wife-oriented excuses for spending the weekend in the lab. Final year tutorial develops into re-assuring discussion that this year they needn't worry too much about past press concerning graduate unemployment. The relationship between demographic trends and demand for graduates proves a useful illustration of the peril inherent in making predictions from descriptive statistics.

WEDNESDAY

Mid-week enlivened by final year conference. The aim is to reproduce as closely as possible a conference situation. Presentation of papers is organized into sessions with chairpersons and formal question time. The event is annually preceded by an acute shortage of overhead pens and slides as the students prepare their papers. The atmosphere of the occasion is complete when, on the day, staff and students alike turn out their "conference computer suits".

Why is it that all male conference delegates wear blue blazer and grey flannels? Am reminded of that time in Holland when I approached someone dressed in the approved manner to discuss a particular point only to discover that I was talking to the hotel porter. The conference (or "Techniques of Communication" as it is more formally known) was generally a great success and in authentic style rounded off with cheese and wine in the seminar room.

THURSDAY

Meet confused looking head of de-

partment in the lift, shows me letter from Open University tutor who uses seminar room on Wednesday evenings. Apparently the collection of dirty wine glasses, cigarette ends and bits of cheese detracted from his teaching. Receive notification that other referee also rejected that paper from someone in Spain.

Ponder the difficulties people have in conducting research in other countries and writing reports in a foreign language. Without knowing why I'm reminded of Prince Charles' comment regarding Britain becoming a "fourth-rate nation". Get reply from vice-chancellor saying that I can have the money to go to that conference in Chicago after all. It was a bit of a cheek writing to him arguing that the annual staff allocation for travel of £100 coupled with declining stipendiary spending power rendered conference presentation a little difficult. Still, if "you don't buy a ticket you can't win the raffle". Worse still it was true.

FRIDAY

Give talk on "addiction" to local school. I went quite well and I'm glad that I chose not to give the "scarer cin to hell" version in view of the news in this morning's paper saying that the recent "anti-heroin" campaign actually decreased the negative attitude to heroin. Instead gave them the factual approach - these are frightening enough - however, little concerned that they weren't fooled by the OXO cube posing as "cannabis" and the talcum powder pretending to be "smack".

Get lab prepared for tomorrow and finish off writing research manuscript. Get home about six to be greeted by another letter from the bank - they might like to say "yes" but they clearly don't understand that it takes time to recover from the financial consequences of spending seven years as a student - file it under "B" with the rest. Have pondered re-mortgaging but we've only had the house for two years and in any case if the rumours are true we'll all be moving when the UGC's letter arrives in May (or was it July?).

Have a little chortle about the current round of speculations - relocation to the north-east, the north-west and closure - which cheers me up. Go to local social club for a pint - greeted by usual hoots from teachers "counting your wages", "looking forward to your summer holidays", the last one usually limited to March - you know the sort of thing) and some new ones, mock cringes followed by "Don't hit me" and "If you disagree old chap, just beat me up." Had forgotten about politician being at the university this week. He should have realized that the closure of the trans-pennine rail link was a bad omen for the popularity of Carlisle in this part of Yorkshire. Beat a hasty retreat home.

SATURDAY

Gas leak in the university necessitates the building being evacuated, thus decide to abandon experiment in view of possible difficulties in replication. Fantasize writing into research report "experimentation carried out in temperature controlled room containing 50 units/cm³ household gas". Decide not to have relaxing smoke before going home. Instead re-do Monday's lecture on learning theory. Struggle to make connection between current situation and theories which state that "behaviour which has negative consequences results in the loss of that behaviour from the subject's repertoire" - conclude that the rate of learning among academics must be highly variable, otherwise we would all be joining the "drain".

SUNDAY

Re-do pluses and minuses count, the score now stands at 14-2 (the additional plus being that the university looks quite nice now that the daffodils are coming out). Spend rest of day trying to work out American equivalent of "Glossjob" and check that my passport is up-to-date.

Colin A. Hendrie

The author is lecturer in psychology, University of Bradford.

Landmark for the Bartlett

by Peter Aspdren

Having your professional work derided all over the front pages of the national press is bad enough, but when that criticism comes from a member of the shy and retiring royal family, you'd be forgiven for wanting to bury yourself in a deep, dark hole.

That wasn't quite the reaction of Mr Peter Ahrends, but he did decide that dignified silence was the only response to Prince Charles's attack on the "monstrous carbuncle" he had submitted as his entry for the competition to design a new extension to the National Gallery.

Although the carbuncle won the competition, and, more significantly, was found to be the most popular in a poll of visitors to the gallery, Mr Ahrends was not going to be drawn into a war of words. Now he must start getting used to a higher profile, though, in his new role as professor of architecture at London's Bartlett School of Architecture and Planning.

Professor Newton Watson, current head of the Bartlett School, describes the appointment as a "unique and exciting choice", rare language in the restrained world of academic affairs which will be claiming most of Mr Ahrends' time.

He will remain an active partner at



Personal File

ABK, the firm he helped found with his colleagues Richard Burton and Paul Koralek, trying to combine his work in the practice and in education. He, and the firm (all three partners work closely together) are

known for a wide range of radical design, notably the new building at Keele College, which won a Royal Institute of British Architects award.

Another landmark was the design of the Cumulus engine factory in Scotland, when, unusually, it was workers using the premises, interviewed and consulted before a final draft was produced. The firm was also among the first in the country to employ a social psychologist when designing the Palmolive scheme in Basildon.

Mr Ahrends has always had connections with higher education, giving master classes at many universities and polytechnics, acting as visiting critic and examiner for institutions as far as Ghana and Canada.

Letters and reactions to architectural press already in the time when the subject is under public scrutiny. Mr Ahrends said two partners have even made peace with that famous family name as it has Prince Charles, moved to remark: "I wish it hadn't been you." Back came the reply quick as you like: "And we wish it hadn't been you..."

Regional link urged for social work

Regional collaboration between universities, public sector institutions and the personal social services agencies will become necessary when the new social work qualification is introduced.

This is one of the topics expected to be discussed at the council meeting of the Central Council for Education and Training in Social Work being held today.

The introduction of a new single qualification for social work based on three years' training to begin in 1990 was agreed by CCTSW last year.

According to papers going to the council, if study and practice for the new award are to include prescribed areas of special emphasis, providers of education and training will have to plan how to use the contribution of special expertise and practice available in the area.

The papers also say that the need for various forms of regional planning is becoming more obvious throughout higher and further education in order to meet the consequences of resource shortages and the short-term decline in numbers in the potential student age group.

But it is pointed out that such planning has to take account of the legitimate conflicts of interest as well as historical sensitivities between the universities, polytechnics, central institutions and the major higher education colleges.

The papers stress though that there are encouraging signs that discussion and preliminary ideas about planning are beginning in some regions. At the moment this is mainly to plan more economic and effective use of practice learning facilities.

Other topics likely to be discussed by council are the position of existing award holders now and in the future when the new award is in place and the assumptions on which resource discussions should be based.

Work starts on expansion

Magee College in Londonderry has finally obtained planning permission to build the facilities which will mark the first stage of its £5.5 million redevelopment programme. Work on the existing site but to the south of the lawn, is to start immediately, to a revised plan and timetable.

The Derry Committee is making overtures to the Department of the Environment to have the whole area 'West College of Technology' declared an educational zone. This proposal was contained in the Londonderry Area Plan, but omitted from the arrangements which upgraded Magee making it part of the University of

Offer to manual staff eases low pay trap

University manual workers are likely to accept a deal which vice chancellors believe is a further step towards reducing a long-standing low pay problem. They have been offered a flat rate £6 a week on all grades - coupled with a merger between the two lowest pay scales.

But the package, estimated at 8 per cent on the salary bill, still means a lower rise for employees at universities compared with universities who pay local government rates.

There the bottom three scales have been merged, and employers are committed to a job re-evaluation exercise, which the vice chancellors were not prepared to match.

Leaders of the manual workers' union are consulting with their members and are due to respond to the offer by the end of next week. Although precluded from recommending acceptance, union leaders are understood to have indicated their support for it.

The employers were not prepared to go as far as the local government deal for fear of upsetting small differentials which they regard as important. The merger of the bottom two scales affects thousands of part-time workers, principally in catering and cleaning services.

Sympathy for the low pay case presented by union negotiators was tempered by awareness that the student grant over the main period covered by the provisional deal was set to

rise by only 2 per cent, limiting the increases in hall fees and catering charges.

Discussions with the manual workers have been almost a re-run of last year when the offer of last year was accepted was made at the first full negotiating meeting. Then though, the increase was a flat rate £4.60 following a study of earnings levels.

The National Union of Public Employees and the National and Local Government Officers' Association have commissioned a further study of the low pay problem in the universities. Conducted through Ruskin College, Oxford, it is expected in six to eight weeks and will underpin the claim for a pay rise of £10 a week or 10 per cent for the white collar staff, whichever is the greater. They are due to meet the employers later this month.

The universities are still considering whether to make an interim pay offer to technicians pending the findings of a joint study into recruitment, retention and motivation problems. Their negotiators are also expected to give their answer to union leaders later this month.

Computer staff have lodged a claim combining the £10 a week underpinning sought by white collar staff and the substantial rise demanded by technicians. Talks are continuing over ways of bringing the agreement on a national salary structure into line with the demands posed by new technology.

Weekly wages for university manual workers from April 1 if offer is accepted	1985	1986	percentage rise
Grade A	76.30	83.40	9.3
Grade B	77.40	83.40	7.7
Grade C	79.20	75.20	7.8
Grade D	82.70	88.70	7.25
Grade E	85.40	91.40	7.02
Grade F	89.00	95.00	6.7
Grade G	92.00	98.00	6.52

Scots unions threaten strike

Officials of Scotland's further education unions are recommending a day strike and total non-cooperation with the Scottish Vocational Education Council in protest against privatization of new National Certificate courses.

The executive committees of the Educational Institute of Scotland and Scottish Further and Higher Education Association will meet shortly to be expected to ballot their members on the officials' proposal.

The unions have been angered by what they claim is a breach of a two-year moratorium on privatization of

Degree courses bear brunt of NAB cuts

by John O'Leary

The main impact of the cuts proposed by the National Advisory Body will fall on degree courses but is spread reasonably evenly between polytechnics and colleges.

Although the disparity between degree and sub-degree work is not as stark as the NAB's own figures imply (because large numbers of students on professional courses were wrongly classified this year) the cut is twice as heavy for degrees. Their first-year numbers are down by about 8 per cent, compared with 4 per cent on other courses.

Student places were allocated by NAB officers working in regional teams, their scope for manoeuvre restricted by the division of the 19 academic programmes into three categories, all taking a predetermined cut.

Overall, student numbers would be reduced by about 7 per cent. The covering letter from Mr John Bevan, the NAB secretary, said that account was taken wherever possible of priorities listed by institutions in

their initial returns. And it goes on to invite directors and principals to suggest changes to the proposals as long as they do not alter the total number of students allocated.

The proposals will be modified not only by the NAB board and committee, which will start to discuss the details of the plan later this month, but also by six smaller planning exercises. The most important will be the revision by the Department of Education and Science of the NAB's proposals for initial teacher training allocations, which is expected to increase the number of institutional closures.

The other subjects where studies are likely to alter the detailed proposals are in town planning, hotel and catering, librarianship, ancillary health subjects and building.

Although the Rose Bruford College of Speech and Drama, at Sidcup, is the only college recommended to lose all its student places, more than a dozen would have all their advanced courses removed. They would survive because of the preponderance of non-advanced courses. The colleges concerned are Kelghey, North Tyneside, Dunstable, Barnsley, Rochdale and Bury colleges, the Stourbridge College of Technology and Art and small providers in Durham, Sunderland, Coventry and North Yorkshire.

In the least protected programmes, big cuts are proposed at: Newcastle Polytechnic (all humanities to go); Brighton Polytechnic (also all humanities); Liverpool Polytechnic (to lose combined studies programme); North Cheshire College (all humanities); Birmingham Polytechnic (150 places in social work, careers guidance and law); City Polytechnic (170 places in programme dominated by business law); Worcester and Crewe and Alage colleges (social and administrative studies to go); Buckinghamshire College (sociology to close); Teesside Polytechnic (two design courses cut).

Courses are also earmarked for closure at languages at North Staffordshire and Trent Polytechnics and the Essex Institute of Higher Education,

	FIRST YEARS	ALL YEARS	%	1986/87	1987/88	%
Degree and above	70015	61800	- 11.7	182560	172090	- 5.7
Other	61915	61240	- 1.1	105510	106950	+ 1.4
Total	131930	123040	- 6.7	288070	279040	- 3.1
Full-time/Sandwich	93170	86020	- 7.7	221180	214170	- 3.2
Part-time	38760	37020	- 4.5	66890	64870	- 3.0

PROGRAMME		FIRST YEARS	ALL YEARS	PERCENTAGE CUT
No	Title			
01	Engineering	15490	33450	6
02	Technology	1390	3340	6
03	Construction	7820	19010	6
04	Science	8100	16280	6
05	Env. Science	3540	11060	11
06	Agriculture	710	1920	0
07	Health	5090	9100	8
08	Mathematics	7740	10800	8
09	Business/Mgt	27330	53360	8
10	Catering	2390	6280	8
11	Other prof/voc	2540	4660	11
12	Social Admin	9190	22910	18
13	Languages	1680	5520	11
14	Humanities	3530	11480	18
15	Art	1960	8260	16
16	Design	5890	14930	6
17	Performing Arts	1480	4510	16
18	ITT (1986 intakes)	12760	29580	10
19	INSET	6150	9300	6
Total		123040	279040	7

and in the social and administrative programme at Portsmouth and North Staffs polytechnics.

In the most heavily protected programmes, Wolverhampton Polytechnic is recommended to lose all its engineering and Sunderland Polytechnic to lose its civil engineering.

A series of mergers are proposed. The Wimbledon School of Art would join Kingston Polytechnic; West Midlands College would go in with Wolverhampton Polytechnic; Ealing Col-

lege would amalgamate with the West London Institute; and the biggest would take place in Devon, joining Plymouth Polytechnic with the College of St Mark and St John, Baffle College and Seale Hayne College of Agriculture and the Exeter College of Art.

Local authorities in Cornwall, Kent, Norfolk and Avon have been left to rationalize provision in art and design, with the likelihood that more mergers would follow there. All have reduced allocations.

SED puts freeze on six courses

by Olga Wojtas
Scottish Correspondent

The Scottish Education Department has caused confusion among teacher training colleges by urging a sudden moratorium on six courses in the coming session.

The colleges had already begun interviewing students for places on secondary courses, following instructions in an SED letter in January which set minimum intakes for different subjects.

However, the latest SED letter says that following estimates produced by the Association of Directors of Education in Scotland on demand for teachers in individual subjects, it seems clear that there is likely to be a very small, or no demand for teachers of history, modern studies, economics, economic history, classics and geology in 1987/88.

The letter comments that the colleges themselves can decide which particular subjects they offer, but goes on to say that if a college decides, after consultation with its local authority, that it should run one of these six courses, it must first discuss the evidence with the SED.

At a time when secondary quotas are constrained, the letter continues, it is important that students who are accepted "should be able to contribute towards meeting the prevailing needs of Scottish schools."

Most of the colleges offering secondary courses have now cancelled interviews, and are likely to accept a fallow year in the six subjects. However, Jordanhill College of Education, Scotland's largest education college, may halt the intake only in classics.

The situation has been exacerbated by a change in application dates.

Mr George Livingstone, chairman of the Association of Lecturers in Colleges of Education in Scotland, said the staff involved made an extensive contribution to inservice training, and the bulk also contributed to primary courses.

Suddenly last summer

Small consolation for social science departments banned from taking new PhD students because their existing ones have failed to complete on time. The Economic and Social Research Council, which to hawks of anguished last year drew up a blacklist of such departments and refused to allocate them new awards, knows a thing or two about meeting deadlines itself.

It turns out the ESRC plunged for its unexpected measure during a brainstorming four days - the amount of time the Department of Education and Science gave the council last summer to decide either to do something radical about its PhD completion rates, or face a £1.3 million cut in its budget.

Higher education is famous for its acronyms, some apt (like the Labour Party's HELP), others impenetrable (like the college principals' SCOPD-CHE). Now comes the self-dubbing acronym - after last week's cut-curious report on town planning, the heads of schools of planning must wonder if it was wise to style themselves CHOPS.

A law unto themselves

The American passion for litigation, currently causing a crisis in the insurance industry, means the law schools are doing very nicely. Even though the number of lawyers in the USA has nearly doubled in the past decade, graduates have no problems finding well-paid employment.

Of 29,269 law graduates answering a recent survey, 92 per cent had found jobs. The majority had gone into private practice, nearly 100 per cent into firms employing 100 or more lawyers. Most are in New York, where the average starting salary for graduates approaches \$50,000, although in small towns this can drop to \$37,000 (Glendale, California) or even a measly \$8,733 (Morgantown, West Virginia). Smartest of all may be the 3.7 per cent going into practice on their own: one graduate made \$100,000 in his first year.

Trad rag

Women students at Aston University have wheeled a fulsome apology from their guild of students by complaining to the National Union of Journalists about the sexist material in the university rag mag. Guild president Joanne Herterich has now explained to the NUJ: "Unfortunately, sexist and racist material in student union rag mags has come to be accepted as a tradition."

There were none of the usual last property problems at a forensic science conference held last week at Strathclyde University. Some banknotes had been found, the chairman announced, adding briskly that any claimants would be finger-printed.

Sound practice

Sir Keith Joseph may care to note that Edinburgh University was fighting the ivory tower image a quarter of a century ago. An exhibition in the city, celebrating the work of Gerry Anderson whose "supermarionation" creations include *Thunderbirds* and *Captain Scarlet*, has revealed that Edinburgh University developed the voice for Robert the robot pilot of *Fireball XL5*.

Academics might not be so keen on Sir Keith hearing about former welder Tommy Reid's introduction to higher education when he was elected rector of Glasgow University some years ago. "All these people kept talking about anathemas - I thought it meant they wanted to work on Sundays."

السلامة



Lies, damned lies - and DES facts

Academics are appallingly underpaid. They have fared worse under this Government than any other professional group. Ministers score no points by trying to hide the fact behind clever statistical manoeuvring by the Department of Education and Science. They were hoisted on that canard over predictions of future student numbers and had to retract. Will they have the good grace to retract on salaries?

In response to the Association of University Teachers' attempts through parliamentary questions to put the record straight, ministers have reaffirmed the only statistic that ensures they can't actually be accused of downright lies. They allege that since 1979 academic pay has more than kept pace with inflation. Indeed, you are all apparently 4 per cent ahead of inflation levels over that period. This is the Tory equivalent of Harold Wilson's pound in your pocket.

Our evidence shows that university salaries have fallen by 24 per cent since 1979 as compared with the retail price index. We based our figures on the Clegg equivalent salary levels agreed on "the basis of October 1, 1979" but promulgated in August 1980 and paid in two instalments in April and October 1980. The DES, however, have been using the salary rates actually in operation in May 1979 (at the time of the general election) to argue that cumulative settlements between then and April 1984 have kept pace with the change in the retail price index for that period. This is just plain deceitful.

Does the Government now really want to argue that it has maintained the erosion in university salary levels since it came to office in 1979? This surely contradicts the statement in the House of Commons on July 8, 1980 that "the Government do not intend to treat university teachers differently from other people, or in the way they were treated in 1975".

What are the facts? In May 1979 university teachers were halfway through a phased settlement designed to rectify the anomaly resulting from government pay policy in 1975. The salary levels payable in May 1979 were 38 per cent below those which had been awarded by independent arbitration in 1975, an award accepted by the Government as an outcome that "firmly and ably" made alterations which did not get down to the roots of the matter but overlapped and caused confusion.

The UK system was too decentralized with a myriad of curriculum, financial and legislative bodies to satisfy. The system was divided on the basis of a class/social/wealth structure and the curriculum differed unacceptably across the country.

Mr Jim Debo, group training manager for Baker Perkins plc, proposed yet another solution. He said what was needed was an overall view with the long-term benefits to students kept firmly in mind and not just the immediate needs.

We believe ministers can be persuaded to recognize the truth, although we have had to resort to hitting them between the eyes with facts that can't be distorted. The AUT and CVCP have jointly employed PA Personnel Services, an independent international firm of management consultants, to establish the facts by objective assessment. We are in no doubt that they will confirm the worst fears of all those concerned to maintain the continuing quality of our universities. It would be an irredeemable tragedy if ministers choose to ignore them.

Diana Warwick

The author is general secretary of the AUT.

NUS vote blow to Left Alliance

by David Jobbins

The future of the Left Alliance this week hung in the balance as the official Labour Party candidate, Ms Vicky Phillips, safely captured the presidency of the National Union of Students. Ms Phillips, who is currently vice president welfare and is supported by the National Organization of Labour Students, beat her rival, Mr Andy Whyte, by a clear 407 votes to 296 at the NUS conference in Blackpool.

Mr Whyte, also a member of the Labour Party, stood under the umbrella of the Left Alliance. The alliance lost the presidency to NOLS in 1982 and has never come close to regaining it.

Even up to the eve of the poll, there was considerable doubt about the outcome, with some sources claiming the Left Alliance would give Ms Phillips a close race.

But the decisive vote, even with a strong candidate like Mr Whyte, who performed well on the hustings, means that the realignment of the non-NOLS left, which began earlier this year when the Communist students quit the alliance, is bound to accelerate.

Many of the delegates at the conference were attending for the first time and may have been influenced by last



Vicky Phillips: clear winner

week's Marplan poll which put Labour ahead of the other parties in terms of popularity with students.

Labour's hold over the NUS executive was confirmed when delegates elected NOLS candidates as treasurer, national secretary and vice president, education. In all cases candidates supported by the Left Alliance were beaten into second place, with only one, for national secretary, a close result.

Left Alliance leaders were plunged into gloom and were privately admitting the umbrella organization, which brings together Liberal, dissident Labour and independent students, was in trouble.

Ms Phillips, 24, was president of the University of East Anglia union before becoming a full-time member of the NUS executive last year. She is only the second female president in the organization's 60-year-plus history.

She said: "I believe Labour is going to get massive support from students at the next general election. The Tory Government have damaged young people to such an extent that there has been an enormous change in attitude since 1983."

Ms Phillips has been a member of the Labour Party and NOLS for more than five years. She takes over from Phil Woolas, who has been president since 1984.

Voters show gender gap

There is a "gender gap" among British voters, with men tending to respond to Conservative appeals, young women are moving in the opposite direction. This is revealed in a study by Patricia Findlay, a study by Patricia Findlay, Stephen Griffiths, graduates of Strathclyde University's department of politics, and Dr Mark Franklin, a lecturer in the department.

Voters born since 1945 do not show the same concerns as their elders. They are less concerned with traditional values such as those of law and order, and more concerned with individualistic values to do with freedom and the quality of life.

Welsh contact

The former Labour Prime Minister, Mr James Callaghan, has been appointed president of the University of Swansea. Mr Callaghan, who succeeds the late Lord Bledisloe as president, said he hoped his appointment would help him maintain substantial contact with South Wales.

Journal launched

A journal written by academics in the field of artificial intelligence is to be launched in July aimed at filling the gap between research and practice. The *Artificial Intelligence Review* is edited by Masoud Yazdani at Exeter University.

Patent service

Hatfield Polytechnic-based HERTIS, a library network serving industry, is launching at the end of April a Patents Information Service aimed at commerce and business. It will be backed by the full-time staff of the HERTIS Information for Industry Service.

Jellicoe confirmed

Lord Jellicoe has been reappointed chairman of the Medical Research Council for a further four years from April 1986. Lord Jellicoe, who is 68, is chairman of the British Overseas Trade Board, and chairman of Southampton University, and chairman of King's College, London.

Summer statistics

Newcastle University is to set up a summer school in statistics, in which students can study for an MSc degree over two consecutive summers. It will consist of short courses lasting one, two or three weeks, and will also be open to people who merely wish to learn more about the subject, without taking the full degree course. It is due to start this June and will run until mid-September each year.

APT attack

Ministers' failure to give large polytechnics and colleges the freedom to award their own degrees has been attacked by the Association of Polytechnic Teachers. Expressing frustration and annoyance at the decision, the APT says: "The Government's response is designed, once more, to protect the interests of the local authorities, the further education colleges and the universities against the needs of the nation and students in the public sector."

Jobs campaign

The "Action for Jobs" campaign, announced by the Government last week, aims to get more people to take advantage of the temporary employment, training, and small business support programmes. More than £1.6m will be spent over the next three months in "overriding the negative image of the public sector" by describing them. Employment advisers will tour the country speaking to

Job choosers need better information

by Maggie Richards

Universities should develop new, closer links with industry to help graduates choose their jobs while employers should introduce new induction procedures.

These are the conclusions reached by occupational psychologist Dr Christopher Mabey in a study published this week of the expectations, choices and subsequent job satisfaction achieved by graduates entering industry.

The research shows that sandwich courses do not help university graduates make the best possible job choice.

Vocational courses within universities, Dr Mabey suggests, should be focused more explicitly on industry - and include the use of lecturers with industrial experience; closer liaison with relevant professional bodies; and intensive pre-employment preparation.

Students should also be encouraged to use some, or all of their pre-university and vacation periods to gain first-hand experience in their anticipated industrial field.

Dr Mabey advises employers to limit graduate induction to a few weeks at or near the beginning of employment, with the remainder of the induction period possible to the employer's career intentions. The initial work task should ideally be a project working with older, more experienced colleagues, with closely controlled deadlines and carrying a degree of real responsibility.

The newcomer's superior should preferably be a graduate, or familiar with undergraduate provision, and committed to the development of graduate employees within the company.

Dr Mabey, now an occupational psychologist with British Telecom, conducted his research while a lecturer at Henley Management College. He is also a former lecturer in industrial management at Brunel University.

In examining previous surveys of both graduates and graduate employers Dr Mabey discovered a fairly constant figure of 50 per cent changing jobs within five years.

The evidence seemed to indicate dissatisfaction with intrinsic job features, which in turn suggested that newcomers were seriously misjudging the nature of the job and organization they were joining. Graduates, it also appeared, were more prone to have unrealistic expectations.

To unearth more detailed reasons for the high turnover in initial graduate employment, Dr Mabey questioned the graduate intakes to 20 engineering companies. Six months after starting work the graduates were quizzed again.

The sample was drawn principally

from university graduates who had followed engineering and technology courses. They were divided, almost equally, between sandwich training and full-time provision. The employers ranged from two major public companies to a number of smaller private manufacturing firms.

Dr Mabey found that lower job satisfaction was experienced by those graduates who had completed sandwich training, particularly where the student had gone on to become an employee of the company involved.

Frequently, sponsored students exercised little or no choice, being contractually bound in a moral or legal sense to return to an organization. The original choice had probably also been influenced by parents.

Graduates into Industry by Christopher Mabey, published by Gower Publishing Co Ltd. Price £16.50. Gateway to Industry, 12-13

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Karen Gold reports from the British Psychological Society Fears for psychology research

More than 20 chairs in psychology are vacant, frozen or unfilled and over 50 lecturing posts have disappeared, according to a survey by the British Psychological Society.

Psychology is suffering in both the universities and public sector and across the research councils, Professor Anthony Gale, chairman of the society's scientific affairs board, told a symposium on research funding at the annual meeting of the BPS.

"The board is very concerned at the prospect for the future of the psychological sciences and the role of basic research within that future," he said.

Research funding seemed to be threatened by cuts in university and polytechnic funding, the undermining

of the dual support system, the deterioration of student-staff ratios, the need to provide for psychology on a quasi-scientific funding base, and the policies, funding and security of the research councils.

The board was investigating the state of psychology in higher education and research funding in particular, he said. It did not yet know how psychological research compared with other subjects in research council allocations, how effective psychologists were in applying for and gaining research money, or the extent to which the recent situation had deteriorated.

But psychologists needed to put their own house in order before complaining too bitterly about the research

councils, Professor Gale said. "Our record in submitting good research applications, or indeed any quantity of applications, is not something we can be proud of, nor do we bounce back in the face of adversity as others appear to do," he said.

"Our record in PhD completion rates is not so startling that we can seek a warmer place in the sun than can other disciplines."

Psychology could benefit from the strategic plans of the Medical Research Council, Science and Engineering Research Council and Economic and Social Research Council and it would not be in the subject's interest for psychological research to be funded by only one body.

Portrait of art for argument's sake

Psychology may need the arts, but does art have any use for psychology? Does the pull between psychology and art represent the division between thought and feeling, reason and imagination?

The questions arose at a British Psychological Society conference symposium on psychology and the arts. For the latter, art historian Professor Sir Ernst Gombrich argued that scepticism was in order in assessing psychology's chance of explaining either the artist - a painting or a sculpture - or the artist's own emotion was one of the 19th and 20th centuries: Van Gogh, when accused of painting while drunk, replied that he might get drunk anyone could paint while they were drunk.

Psychology was useful in the visual arts in explaining perception. The complexity of illusion and perspective was how the artist transferred what he saw on to canvas. But understanding art had rested on metaphors of harmony and coherence since Aristotle - even in the simplest description such as a "wavy" line - and psychology had brought us no nearer an objective understanding of art.

On Velasquez Professor Gombrich said: "We just don't know how he did it and what he did but it takes the breath away. Discussion of the psychology of art has given me no more insight than the expression, 'Gosh, isn't that marvellous'."

When challenged on why they had not studied artists, psychologists offered "jam tomorrow" platitudes that the arts were the product of higher functions and they would be dealt with in due course when the lower functions

had been explained. Psychologists needed the arts to make more sense of human experience, Dr Bannister said. But psychology was not much use in making sense of art and artists, Professor Gombrich said: "Of course we can't explain Beethoven. We can't explain our neighbours."

The division between thought and feeling was false, but so was setting up the artist as a creature of the imagination. The idea of the artist exploring his own emotion was one of the 19th and 20th centuries: Van Gogh, when accused of painting while drunk, replied that he might get drunk anyone could paint while they were drunk.

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Prizes that spring no surprises . . .

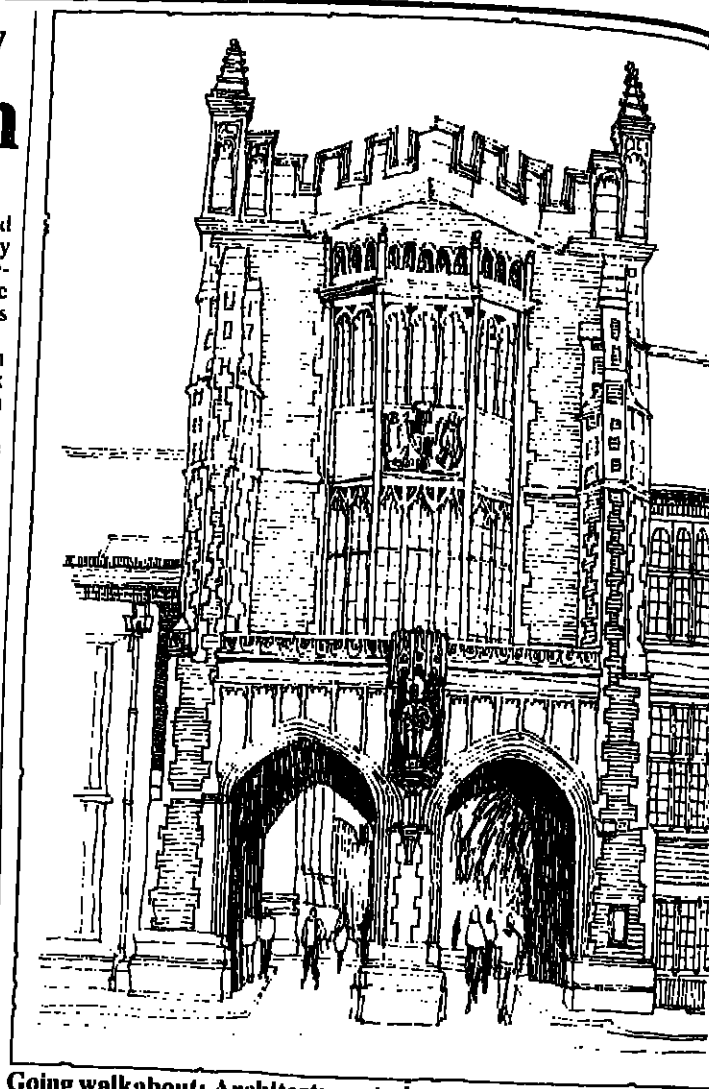
The art of giving prizes, that hallmark of the great educational tradition, reveals common notions of justice and proportionality that cross all boundaries, according to Professor Leslie Reid, of Exeter University's psychology department. In a paper given at the British Psychological Society conference.

Prize giving was on the increase, but the pattern on which committees everywhere distributed their first, second and third prizes was startlingly the same, he said.

Professor Reid asked 65 academics how they would distribute £100 between three prizes and also looked at the distribution of 143 actual prizes for merit.

Both experiments produced near-identical ratios. The academics, after initial reluctance, agreed that more than 50 per cent of the notional £100 should go to the first prize winner, that the second prize should be about twice the third, and that the third prize should be significant.

The real prizes followed that pattern exactly: on average 53 per cent went to the first prize winner, 30 per cent to the second and 17 per cent to third.



Going walkabout: Architecture students at Newcastle University have designed drawings for a new series of walking tour guides for visitors. The university expects an upsurge of interest in its affairs from the general public during this autumn's Channel 4 series on its work at functions, and when it hosts this year's Tall-Ships Race.

Therapy first for Edinburgh

Queen Margaret College in Edinburgh is to launch its first occupational therapy degree course in September. It is the second course approved at the college in three days by the Council for National Academic Awards, the other being a BSc in physiotherapy.

Mr Donald Leach, the college's principal said the new course marked the transition of Queen Margaret to a predominantly degree-based college, with only one health care course still to be converted to a degree.

These courses give us a very close relationship with the National Health Service, and we are now in a strong position to move on to develop continuing education provision for the south east of Scotland," he said.

However, he warned that if Scotland's full potential in health care was to be realized, there was an urgent need for the Government to provide the Health Pick Up Scheme, which already exists in England and Wales.

Queen Margaret currently has 110 students in its physiotherapy diploma course and 120 students in occupational therapy. It hopes to offer 38 and 48 places respectively for the new degree courses.

Catholics face more closures

Proposals to shut one or possibly two more Catholic colleges of higher education will probably come within the next two years, the chairman of the Catholic higher education committee warned the annual conference of the Catholic Teachers' Federation last weekend.

Speaking at Trinity and All Saints College, Leeds the Rt Rev Daniel Mullins, archbishop of Swansea was answering a question about the fate of De La Salle College, Manchester, which is under threat of closure following the withdrawal of teacher training places and the failure of Catholic authorities to agree on a merger between the college and the Liverpool Institute of Higher Education.

Bishop Mullins foresaw a bleak future for the role of the Catholic church in education. "In the 1970s we had 16 teacher training institutions. We now have six and none of them can face the future with confidence. I am quite certain that in the next two years at least one and possibly two of those will probably be named for closure."

And acknowledging the declining role of the Catholic church in the rest of the educational system Bishop Mullins added: "If we don't come up with answers very quickly we shall be reduced to primary education only."

He pointed out that in the early 1970s Catholic colleges along with other teacher training institutions were encouraged to diversify. They complied so as to hold on to teacher training places for the future while asking themselves at the same time if that was what they wanted to be doing.

Once teacher training had gone, however, as had happened at De La Salle, the situation was very different. "So long as we say we will continue doing the sort of work which requires 100 per cent funding and that's all we are prepared to consider I don't think we can make a case for staying in higher education."

He told members of the federation, which represents over 1,500 schools, that what the Catholic Church should be about were the sort of priorities which would not attract funds from central government. "Unless we can come up with better procedures than simply responding to crises when they arrive we are going to go on and on diminishing." (TEN)



Yitzhak Zamir: attorney general

Row over MP's law degree

from Benny Morris

JERUSALEM An irregular marking procedure in the law faculty of the Hebrew University of Jerusalem has raised a minor political storm which threatens to unsettle the chairman of the Knesset law committee and to bar the attorney generalship to the faculty's dean.

The affair involves Knesset member Eli Kulas (Likud-Liberal Party), the key committee's chairman, who last year was awarded a BA in law by the Hebrew University and last month was called to the bar; Professor Yitzhak Engelhard, the dean who was instrumental in pushing through Kulas's degree; and Professor Amos Schapira, the former dean of Tel Aviv University's law faculty, who helped Engelhard push through the degree.

The problem is that Kulas failed an important examination on criminal law four times which, according to HU regulations up to last year, meant that he could not sit for the exam again, and without a pass mark in criminal law, he should have been ineligible for the degree.

But Engelhard, who was minded to help the student in difficulties, asked Schapira if Tel Aviv University could accept a seminar paper rather than an exam on criminal law from Kulas. Schapira agreed, Kulas received a 90 (very good) for his paper and the Hebrew University accepted the mark in lieu of the exam and Kulas got his degree.

Engelhard until now was regarded as a leading candidate for the post of attorney general, which is to be vacated next month by Professor Yitzhak Zamir. The appointment is in the hands of justice minister Moshe Nisim, one of Kulas's party colleagues. Engelhard has denied that he discriminated in favour of Kulas, saying that such special arrangements for students in difficulties were quite common.

Most observers in Jerusalem believe that the affair has substantially harmed Engelhard's chances to become attorney general, who is the country's chief law officer with cabinet rank.

Meanwhile, the Hebrew University has instructed its inspector general, Moshe Ben-Zeev, to investigate the matter and a Jerusalem lawyer, Shmuel Sa'adiah, has asked the attorney general, the state comptroller and the Knesset state control committee to do the same. Professor David Liba'i (Labour), chairman of the Knesset state control committee and also a law lecturer, has said that his committee will indeed take up the matter.

Nothing in law requires the chairman of the Knesset law committee to hold a law degree. But most of Kulas's predecessors have been legal experts, and if it is determined that Kulas's degree was irregularly earned, it seems doubtful that he will be able to retain the chairmanship.

Meanwhile, the two university law faculties remained at odds over what exactly had happened. Professor Schapira reportedly said (though later denied in a letter to a newspaper) that Professor Engelhard had specifically asked him to take Kulas's paper in order to bypass the Hebrew University's regulations. Engelhard denied that his approach to Schapira had been couched in such terms. (TEN)

overseas news

The UN appoints its first rector of peace

by Donald Fields

The United Nations Peace University, based in Costa Rica, has appointed a Finn, Dr Tapio Varis, as its first rector.

Dr Varis, 39, has a long record in mass communications and peace research. He made a pioneering study of the impact of foreign output in television programming in scores of countries, and headed the Tampere Peace Research Institute until he was dislodged, apparently for political reasons.

His tours of duty have included appointments in Venezuela and California, and a visiting professorship in Austria. He is now a senior research fellow in the Finnish Institute of International Affairs.

The UN Peace University has been set up by Resolution 3555 of 1980. Though the UN charter and the universal declaration of human rights form its guidelines, it is not expected to be a financial burden on the world organization or its agencies, including the older UN University, and cannot receive money from governments.

Voluntary contributions are partly drawn from various universities. A tending development aid to education. But the largest single donation - \$1 million, roughly covering an annual budget - has come from a Japanese shipping magnate.

Dr Varis told *The Times* that he believes the constitutional and financial frameworks would provide simple autonomy. He did not fear the economic and political pressures that

have hamstrung Unesco, partly because the sources of income were diffuse. The Peace University's functions were purely academic, and good working relationships had been forged with universities and intellectuals in many countries.

Teaching staff work for half of each calendar year on three-year courses including the links between peace and communications on one hand, and education on the other. A human rights course is also planned. The time-lag between establishment of the council in 1981 and a start to teaching means that the first master's degrees will not be awarded until 1987.

Staff for the 28 students drawn from 18 largely third world countries have been provided by universities in Canada, Spain, France, Italy and

Venezuela. "We are up to Sorbonne or Nanterre standards," Dr Varis said.

And how will the university fulfil its ideal of promoting peace? Its rector predicts that its graduates will move into international organizations, diplomacy, government service and journalism - careers in which they can expand their contacts and vision and show more empathy with poor countries.

Though he acknowledges the university's potential in the lessening of East-West conflicts, Dr Varis sees his work largely in terms of simplifying the North-South dialogue: "I'm from the rich North, and I want to follow the best traditions of freedom and tolerance espoused by the Humboldt University. We are dealing with global problems that concern us all."

Institute to save Africa's environment

by Thomas Land

A scientific research and training institute deploying remote-sensing space technology for the rescue of the rapidly deteriorating African environment is expected to be set up shortly in two components based in Zambia and the Ivory Coast.

The projected Institute for Natural Resources in Africa is planned by the United Nations University with backing from Britain and other Western countries.

Progress towards its establishment and the corresponding co-ordination of scientific work at many African universities indirectly result from the recent big drought and famine which cost many thousands of lives across the continent.

The institute will cost \$50 million to establish and \$5 million a year to run, according to UNU estimates. It will be a pace-setter in the application of remote-sensing space technology in such spheres as long-range resource planning and food production. It is to stimulate training and research, meeting the scientific and industrial needs of some of the world's poorest countries.

Its establishment has been subject to intense and frustrated discussions involving the UNU and various African governments for some years. The



Famine victims: an undernourished family in Mali

UNU planners have always understood the inherent difficulties arising from the classified nature of most information related to natural resources in Africa.

On the one hand, the institute will have to win the support of states obsessed with national as well as

commercial security; on the other, it must share specialist knowledge among the continent's various scientific institutions, overriding those very obsessions.

Awareness of the common peril resulting from the relentless environmental degradation over much of the

"There are still some areas of relative prosperity in Africa based for the most part on the massive export of non-renewable primary resources. But the general degradation has led to the poverty of the African peoples and the lowering of their quality of life."

Catholic college heads fight Vatican reforms

from William Norris

WASHINGTON The presidents of the 235 Roman Catholic colleges and universities in the United States have vowed to oppose a Vatican proposal to put them under the control of their local bishops. They believe this would destroy their hard-won reputation for academic freedom and might even force some into bankruptcy.

The cause of the row is the proposed draft of a document aimed at Catholic institutes of higher education throughout the world. It places "spreading the message of Christ in the world" and "duty and the right of seeking and disseminating truth" as the objectives of a Catholic college or university.

Local bishops would be given the "duty and the right of seeing to it that the principles of Catholic doctrine are faithfully observed". They could declare a university "no longer Catholic"

if "the Catholic character continues to be compromised in a serious way". Faculty members are to be chosen for their "doctrinal integrity and rightness of life", as much as for their academic qualifications.

The Vatican's congregation for Catholic education, which is headed by the former Archbishop of Washington, Cardinal William Baum, began circulating the draft of the document last year, seeking comment from Catholic educators around the world. They were given a deadline of April 30 for their response, but the American presidents, who represent 40 per cent of all the Catholic colleges and universities worldwide, have not waited. They have already fired off a 12-page critique to Rome.

This says that the proposal for church control of colleges is totally at odds with the standards of American academic accrediting associations, which require that full control be vested in the schools' governing boards. "Several court tests," the presidents add, "make it clear that the favourable decisions regarding public aid to Catholic colleges or universities are founded on a perception by the court that the church does not control them."

Loss of accreditation would mean serious financial loss. Students would no longer be able to claim federal or state loans for their tuition, and the institutions would lose state and federal grants which currently total more than \$500 million a year.

The Rev. William McInnes, president of the National Association of Jesuit Colleges and Universities, said: "If this went through in its present form, it would undo two centuries of struggle of Catholic education in this country. . . we would be discredited in the eyes of the university world."

Tamil war means no rises this year

from D. B. Udalgama

COLOMBO Apparently the last official word on the pay claims of Sri Lankan academic staff which have crippled the work of the science faculties of three universities has been spoken by President J. R. Jayawardene, who is also the minister for higher education.

He chose a meeting of a professional union of the universities' non-academic employees to announce that there will be no salary increases that year. He said that the government would not be able to grant an increase in salaries next year.

President Jayawardene's only actual reference to the universities was to say that he would do his utmost to solve the problems of lecturers.

The academics' protest began at the Colombo science faculty last month when the dean and heads of departments resigned their voluntary posts. Their counterparts at Kelaniya University subsequently submitted their resignations but the vice chancellor, Professor I. Balasuriya, was reported to have declined to accept them. Since then the science faculty at Peradeniya has followed suit.

Though it may be taken for a fact that the discontent of the academics arises from poor pay, they have been careful to insist in their statements that public provision for education is a

had been made by them. Rather, they attributed their protest to their inability to recruit staff of the right calibre and concern for the quality and standard of teaching in the science faculties.

Meanwhile, the finance minister, Mr Ronnie de Mel, who was awarded an honorary degree by the Ruhuna University, had some sound but, in local conditions, impractical advice. He called on the universities to generate their own resources.

Mr de Mel said that unlike in Western countries, the entire funding of universities in Sri Lanka was by the state. No government could guarantee a regular commitment, so universities must make every effort to raise additional revenue, or they will

College administrators, on the other hand, did relatively less well in the last pay round. The College and University Personnel Association reports that their salaries increased by only 5.3 per cent on average, though chief executive officers and executive vice-presidents managed to net 7.7 per cent.

The highest-paid administrators on campus, for the second successive year, are the deans of medicine. They topped six figures for the first time, drawing down an average of \$105,000. Deans of dentistry came in second with \$87,450. By comparison, university presidents are earning only \$65,890.

Ministers face sporting problem on finance

Ministers want to curb abuse of student union finances by leftwingers but are having great difficulty finding way to safeguard sporting and leisure facilities.

Sir Keith Joseph, Secretary of State for Education and Science, remains eager to stem excesses by leftwing activists but has met daunting practical obstacles. Voluntary student union membership - the abolition of what rightwingers have dubbed the "fortified closed shop" - remains close to the heart of many Conservative students

and party stalwarts. Last year the Government warned student unions that unless instances of ultra vires payments to left causes were stopped, a way of separating political from social and leisure activities would have to be found.

But Sir Keith told his critics within the Federation of Conservative Students at Scarborough it was "foundamentally difficult" to give students access to sporting and leisure facilities while restricting other union activities.

"If one removes automatic mem-

bership one has to replace the arrangements for access," Sir Keith said.

He was attracted to the principle because of the way it would remove at a stroke the problems associated with the misuse of public money, a number of examples of which have been lodged with the Attorney-General, Sir Michael Havers.

Sir Keith appealed to his audience for solutions only to be upbraided for failing to provide them himself.

FCS conference, page 11

College training 'improves attitudes to women'

by Carmel McQuaid

Higher education has a markedly positive impact on how men perceive the rights and roles of women in Northern Ireland according to a recent survey.

Questionnaires to 500 men and 500 women selected from the 1985 electoral register and later to 500 professionals, show that those who continued their education beyond the age of 18 have a far more liberal outlook on women's rights.

They were more agreeable to having a woman as a boss and believed that "a woman should be as free as a man to propose marriage", or "girls earning as much as their boyfriends should pay for themselves when going out with them."

On all issues, both social and work-related, professionals had the most liberal attitudes and unskilled workers the most traditional. Professional men were seen to be much less forward-looking than women, while doctors, bank managers, secondary school

principals hold attitudes which hardly deviate from the average.

The most liberal views regarding women in work were expressed by personnel managers, followed by solicitors and building society managers. But in every group, women's liberal colleagues according to the survey by John Kramer and Carol Curry from Queen's University department of psychology for the Equal Opportunities Commission of Northern Ireland.

Women and work gave rise to most differences in outlook. Both men and women agreed it was worse to hear women swearing. Men were not as prepared to accept that women had as much to offer industry.

Any departure from traditional thinking among the men surveyed seems to have definite bounds. "The impression comes through strongly that most men and women still see a woman's first commitment as being to her husband and her children, with work being only of secondary concern," the survey states.

Nearly one in three bank managers and one in 10 males in the other groups saw themselves as having a better chance of further training than women; 30 per cent admitted their chances of promotion were increased because of their sex, and 40 per cent of professional women felt their promotion chances were diminished because they were women.

"These figures are in excess of those noted within the general population as it is often felt that the effect of sex discrimination is likely to diminish within increasing social class," the report states.

Most male professionals and all bank and building society managers reported that the women they encountered at work were in inferior roles. The exception was teachers, where roughly one in four males reported women to be in superior positions. Professors of women members, personnel managers, teachers, and secondary school

principals, all seemed to include among their female samples the highest incidents of dissatisfaction.

Women school principals seemed the least concerned of all groups about the repercussions of marriage on their careers. Two out of five female professionals, appeared more optimistic about the effects marriage had on women's job advancement, but male solicitors, doctors, bank managers and secondary school principals saw it as a disadvantage.

Young educated women had extremely liberal outlooks, especially on women's role at work. The younger males, by contrast, proved to be considerably less imbued with a liberal spirit. "Below the age of 35 it is a decrease in the strength of traditional liberal outlooks provided by the young, or indeed the middle and professional classes, than traditional attitudes and stereotypes are undoubtedly going to persist that much longer."

It's small business, we are told, which is to be the engine of economic recovery and a palliative at least for mass unemployment. Firms are setting up by the thousand each year in every branch of industry and commerce. But this has never been fertile ground for higher education: costs have to be paid to the tune of £100,000 a year and there has been little need for it in most small businesses for graduates' skills.

Now that is beginning to change. Many universities, polytechnics and colleges are encouraging local firms to make use of their expertise, and the trickle of graduates taking jobs in small business is turning into a regular flow, even if it is far from a torrent as yet. Much of the activity is in the high technology field, where small companies come and go with bewildering rapidity. There the need for computer-literate graduates and access to the latest research is ever more pressing, with each new phase of product development. But collaboration with higher education is spreading to wider areas than this.

A classic example is to be found in the unprepossessing premises of Stainless Steel Fasteners, on an industrial estate on the outskirts of Chesterfield. The company is more receptive than most to the employment of graduates and the promotion of contacts with universities and polytechnics because its managing director, Mr Bill Speirs, has had fruitful experience of higher education himself. He took an engineering degree at Birmingham University, followed by a diploma course at the Manchester Business School, and he attributes much of his subsequent success to the knowledge and training he received then.

Not that the attitude which has produced five graduates in a workforce of 60 owes anything to sentiment. Mr Speirs is a hard-headed young businessman who runs the company with the minimum of frills. Turnover has increased threefold in five years without expanding the number of employees. Instead, the tea trolley has been replaced by coffee machines and the tea lady now works from the shop floor; there is no longer a receptionist or receptionist, and there is positively no room for anyone who does not make a wholehearted contribution to the success of the operation.

Graduates generally do not find it easy to fit into such an environment, but those who do, soon become extremely valuable. Nuts and bolts - SSF's business - may seem a pretty basic commodity but high precision is required in their manufacture and there are crucial changes in a highly-trained person can spot to increase production. Similarly, there are gains to be made on the business side from employing better-qualified staff. However, there are drawbacks, too. Most graduates, says Mr Speirs, experience trauma when starting work, finding it difficult to come to terms with strict timekeeping and inflexible deadlines, as well as encountering

scepticism or even resentment among other workers. "In a small firm, everyone knows if you are not there at eight o'clock," he says. "At university, if you don't meet a deadline for an essay nothing happens; it's not like that here. Language can also be a barrier: it takes time to get to know the jargon which you need before the other workers think you know what you are doing."

When you are a woman and a first-class honours philosophy graduate to boot, the obstacles obviously



Fastening on to a firm future

First-class honours graduate Alison Good (above and left) ended her sponsored trial period at the Chesterfield firm run by Bill Speirs (above) with promotion to export manager.

become even greater, but Alison Good, now the company's export manager, overcame them all. Mr Speirs admits that he would not even have interviewed her if she had applied for a job in the normal way. "She was a philosophy graduate," he says. "But she came for a trial period via Sheffield University's Gateway scheme, which uses Manpower Services Commission sponsorship to place graduates in small, local businesses. Neither the graduate nor the firm has any say in the matching of applicants to employers, which is why

Alison and SSF found each other. Since the scheme is intended primarily for graduates having difficulty finding employment, most of the participants have degrees in non-scientific, non-vocational subjects. The MSC pays their wages for six months, as well as funding a two-week residential course before the period of employment starts, and then both sides can decide whether the experiment justifies permanent employment.

In Alison Good's case, Mr Speirs was so impressed with her efficiency in organizing an overseas sales tour for him that he not only gave her a job, but also created a new post of export manager. The scheme gave her a clear picture of the versatility required in small business since she operated as Mr Speirs' personal assistant. "One day I was packing bolts if they were short-stuffed and the next I was going out looking at possible acquisitions," she says. "In the end, I felt a bit that I wasn't getting anywhere, but now I am specializing in exports I am enjoying it and I intend staying for a while before perhaps moving on to a bigger company in the same sort of field."

At Hull University, she had her

sights on an academic career, but about to embark on postgraduate study when she decided it was time to join the real world. She had joined multinational companies, but she is the only one who ever decided small business. Now she is studying she does on a part-time course for the certificate in accountancy, although she still retains a philosophy at home.

The other graduates employed by SSF are not from quite such varied backgrounds, although the majority have a degree in English studies, anything technical. He is carrying the company - another new post - to pay its wages before too long. The company secretary, aged 24, is a graduate and two more are engaged on quality systems and test certificate work.

The company also takes in a number of graduates for work experience, a number of universities, polytechnics, and they too have made their contribution. One engineering student, for example, was set to work on a machine carrying out a repetitive task for as long as it took to come to a cost-effective modification to increase efficiency. He then had to make the materials, make a presentation to the board to secure approval for the expenditure and carry out the modification. It involved only the addition of a simple shute, but Mr Speirs insists that it was a valuable exercise for the student and a lasting benefit for the workers who normally operate the machine.

Partly as a result of the contacts made in the relevant areas of higher education through the arrangement of such placements, SSF is also able to consult university or polytechnic academics when an intractable technical problem arises. The company processes are sufficiently well established that this is not a regular occurrence, but the reception, especially from the polytechnics, encourages further contact when necessary.

Mr Speirs believes that most small businesses would gain from a similar level of involvement with higher education, but the typical attitude is one of complacency. He has his criticisms of attitudes within higher education as well, accusing graduates of unrealistic salary expectations, for example. "Initially, they are not worth as much as they think," he says. "They make a lot of mistakes. I am very selective interviewing and put people in on a trial period at a low salary with a three-month review. But there are people here earning twice or three times what they started on - that's the flexibility of small business."

"I have worked in big business and it bored me to tears working in a job which seemed completely irrelevant. You have to be a certain type of person to enjoy small business, but there is plenty of scope for graduates within it."

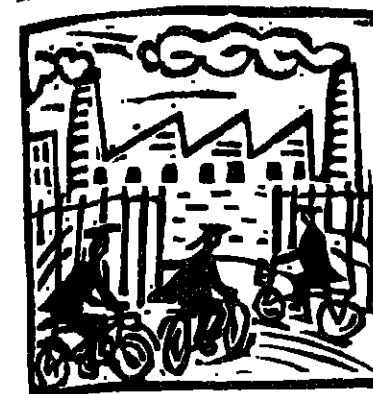
own after all, and others have scrapped their projects and started new ones as a result of advice received during the programme.

Those who did exhibit covered an extremely wide range of projects, the majority based on expertise acquired during undergraduate careers, often pinning their hopes on outside interests with no connection to their academic pursuits. Some are already on course for big profits.

Christine Wallis, for example, was a mature student at Bedford College of Higher Education, studying English, education and drama before embarking on a knitwear business which has won orders from prestigious firms such as Body Shop and Harrods, which commissioned her to design a sweater incorporating the store's trademark. She is about to employ her first full-time knitter and is expected by the Cranfield staff to make a big success of her venture.

Cranfield already ran entrepreneurship courses for mature students returning from a period at work to take an MBA, but the Graduate Enterprise Programme is one of the few initiatives aimed at those considering self-employment straight after higher education.

Business school staff see a need for much more training of this type, perhaps incorporated into existing undergraduate courses. In the arts and particularly in creative subjects, a period of self-employment is often the only way to pursue a career in a closer field. Better structured, advice at the right stage might produce many more success stories.



Gem of an idea

The GEP (see story opposite) has enabled Maria Koutouss (above) to make direct use of the skills she learned at Sheffield Polytechnic studying silversmithing and jewelry design. She has returned home to Bolton to set up a fashion business, designing co-ordinating jewellery to suit designers' collections of clothes. The MSC grant enabled her to carry out market research which confirmed that there was a gap in the market for her jewellery.



Grand designs

Mark Saunders (above) had been to two higher education institutions before he joined the GEP: Imperial College, London, for a degree in mechanical engineering and the Royal College of Art for a Masters in industrial design engineering. Now he is hoping to exploit inventions made possible by that training. His business will be based on a folding bicycle with belt drive and no chain, for commuters, but he has also won awards for a jar opened by rubber timing belt and a child-proof tablet container, which also monitors dosage.



Party line

Tessa Finch (above) was social organizer for the Oxford Union, making a £4,000 profit for the society from its first ball and later transforming its cellar into a profitable cocktail bar. She has now decided to use her talents to run an agency in London putting on parties and promotional events. Finch's, whose Pink Panther mascot emblazoned the exhibition was commissioned by Arthur Andersen, one of GEP's sponsors, among a growing list of clients.

Dream started with a pinch

No matter how hard they try, the relationship between universities and industry is beset by mutual suspicion. There are sound - and poor - reasons for that, but the atmosphere will only change if a less dependent way of financing certain fields of research can be found; if academics discover a way of being funded by industrial concerns without, as Professor Bodo Linnhoff puts it, "selling their souls".

The Faustian metaphor comes easily to him, as if he has given the dilemma plenty of thought. Nearly 10 years ago, as a PhD student in Leeds, where he had come to study from his native Germany, he made the startling discovery in the field of thermodynamics which was to have substantial commercial implications. Academic acclaim was not slow to follow - Professor Linnhoff was awarded the Royal Society's gold medal in 1981 for his work on the "pinch principle", a technique which could slash the energy costs of big chemical companies.

But the harnessing of his discovery to the needs of industry was a more complicated process, which he has only now settled to his complete satisfaction. He and his team of researchers have set up a research consortium at the University of Manchester Institute of Science and Technology in conditions which would have been considered extraordinary when he started his academic career.

For an annual subscription, a number of companies join the "club", as he likes to consider the consortium, in return for which they receive up-to-date findings of the research team. The companies have no control over the content or direction of the research; Professor Linnhoff and his colleagues have a completely free hand in choosing new areas with potential, before giving the results to the member companies. Then, as normal, they are published for public consumption a couple of years later. Complete academic freedom and independent financing, a dream combination.

He believes the scheme is a unique venture in Britain. Even in America,

How UMIST achieved the ideal combination of independent financing and academic freedom. Report by Peter Aspden

only a few such arrangements are in operation, such as the delicacies and difficulties of the relationship between the academics and the industrialists. When he floated the idea, it took more than a year to investigate the legal implications of what he was suggesting and to draw up the unprecedented terms of the contract.

"I did get moral support from many people, but no one really understood what I was trying to do. In the legal field, the university was quite difficult to deal with, while the Science and Engineering Research Council jumped to the conclusion that there were strings attached to the deal. They didn't recognize the uniqueness of what was happening. Their attitude was one of benevolent disinterest, which is extraordinary."

The puzzlement of outsiders reflects the highly unusual nature of the UMIST initiative. To Professor Linnhoff himself, it represents an ideal compromise between the different demands of industry and academia, although, as he points out, they are actually working in the same direction for much of the time. He worked for ICI for five years after completing his doctoral thesis, a phase which he regards as crucial in the development of his work. "That was where the usefulness of the principle was first acknowledged. When I first formulated it, I myself did not really recognize what I was doing."

"It was difficult to see its importance until the industrial applications were examined. If I had not gone to ICI, the principle might still be confined to a doctoral thesis somewhere. I am sure it happens all the time." Fortunately, ICI, who also failed to realize the worth of the principle immediately, let Professor Linnhoff publish his work

freely; wider circulation of his research led to discussions among other companies and scientists, and he gradually felt the urge to come back into academic life.

"I certainly felt I wanted more independence and freedom to pursue my own interests. I also felt what I was doing was a genuine scientific breakthrough, with a wider significance than had been explored up to that point."

So, to UMIST, where he went back to some first principles and started looking at the "pinch principle" from scratch, to try and devise a whole new engineering design system.

"A new discovery is a step forward in its own right, as well as being a stepping-stone to other new discoveries," he says, noting that only an academic climate could give him the atmosphere to step out in new directions of his own choice. But the years at ICI had made him acutely aware of the importance - and the beneficial effects to his work - of technology transfer. Firms who began to use the principle to save money began to request courses to investigate ways of updating their techniques and making further advances. This led to the idea, mooted by an American friend, of setting up a "club", with a kitty which could be used for undertaking such work. Eventually, the consortium began to take shape.

The three basic tenets of the Linnhoff team's philosophy give an idea of the balance struck between money and scholarship. Targets Before Design emphasizes the need to predict achievable design targets. Technology for Profit stresses the financial advantages. No Black Boxes reflects UMIST's "endeavour to obtain scientific insights and understanding, not to

Ngaio Crequer profiles Dame Anne Warburton, former diplomat and college head

Britain's ambassador for womanhood

A graduate of American and British universities, former merchant banker, a career diplomat including posts with Nato, the UN and then the British ambassador to Denmark, and now head of a Cambridge college.

She is of course Dame Anne Warburton and there could be no better example of a successful woman for the students of Lucy Cavendish College, the only college in Europe which caters only for mature women students.

Significant, too, that she came to her main career, diplomacy, as a mature woman. Working for the intelligence department of Lazard Bros in London she had already decided she was not going to be a really good economist (not sufficiently good a mathematician), and work in the City did not appeal as a long-term proposition.

She was just turning 30 and a friend sent her a clipping on over-age entrance into the Foreign Service. She got in and went on to forge a glittering career, culminating in Britain's first woman ambassador, when she served in Denmark in 1976. But Dame Anne still looks rather surprised if you ask her questions along the lines of "woman in man's world".

"I have always wanted a real job to do, and I have wanted to do it as a person not as a woman."

Sometimes, she accepts, it has been an advantage to be a woman. "As a diplomat, to put it at its lowest, you can be recognized more easily in a room full of men."

She sees feminism simply as a question of fair play. Although she has never belonged to "crusading organizations on women" as she puts it, she has just become a part-time commissioner of the Equal Opportunities Commission.

"I think their approach is that the law is right but getting attitudes worked right through is more difficult. It is not always discrimination but an ingrained lack of self-confidence among women, inculcated by family, teachers and friends."

Dame Anne, appointed president of Lucy Cavendish College at the end of last year now takes up "my third career of my third age".

Her own education was not the traditional one it might look. At the age of 13, at the start of the war, she was evacuated to America, (her mother was American) and spent the next six years there.

She took a degree in Government and Economics at Barnard College, Columbia University, in America, when she was only 18.

In 1946, she stayed with friends at Oxford and fell in love with the place. She went to a cramming school to study English, history and classics for the entrance exam. "No electricity; just candlelight and hot water bottles."

She studied PPE at Somerville, "teaches you how to read The Times". And then the next eight years had three different economic jobs.

First, in London, at the American Embassy on the Marshall Plan, then with the Nato secretariat, in Paris, following the economic development of some of the member countries, then to Lazard Bros.

Then, in 1957, she entered the Diplomatic Service and worked in London, Bonn, Geneva and New York. Between 1976-83 she was British ambassador to Denmark, "a dream of a post. It is a very small and friendly country. They like the British. You can talk directly to them. They were accustomed to looking to us for culture, defence, etc. . . . Doors were always wide open."



Dame Anne Warburton: "question of fair play".

She quickly learned Danish, which endeared her to them, and she was kept at her post for seven years, "an unheard of time for that kind of posting".

She went on to become ambassador and UK Permanent Representative, to the UN, in Geneva, and she retired 18 months early, to become President of Lucy Cavendish.

Now she wants to bring the college into the limelight and she is working hard on plans for an appeal to finance an extension which will provide more study facilities and accommodation for the students.

"We reach the parts that other colleges cannot reach," she says. She believes passionately that the skill, ability and intelligence of women is one of Britain's most neglected resources.

She wants to open up the range of studies pursued by girls and women, rather than keep to "traditional" subjects in the arts, biology, medicine or veterinary studies.

produce black box computer programmes."

At present, each of the 18 member companies, which include BP, Union Carbide, Unilever and Procter and Gamble, pay £11,000 a year in subscription fees, which enables the 18-strong research team to carry out the work. Both the number of companies and the size of the team are strictly limited to ensure intimacy and quality control. The role of trust in the relationships with the companies is absolutely crucial.

"Obviously when you visit companies and discuss their requirements, you pick up a lot of confidential information and it is important for them to know that you won't let their competitors know," says Professor Linnhoff. For this reason, he does not want to include more than 20 companies in the consortium. "We don't want it to be just a source of funding, it's important to have a close dialogue."

Even companies which are not members benefit in the long term, because research findings are distributed immediately, the final quality of the published version is much higher, having already been field-tested. In the meantime, the favoured 20 can choose to leave the consortium any time they like - contracts are signed annually. Of course, £11,000 is a tiny sum for these industrial giants, but their commitment amounts to rather more than that - about five full-time managers, Professor Linnhoff estimates. Although he enjoys the freedom of the no-strings-attached deal, he emphasizes that the whole arrangement is dependent on his team's performance and its results - not unlike industry, in fact.

"If we don't perform, we could be closed down within 12 months, it's as simple as that." He somehow doesn't sound alarmed at the prospect. Interest in the "pinch principle" is increasing all the time, the future of the consortium looks safe for the time being, and the whole development is producing a fascinating side effect. Such as the one which sees all the member companies getting together for an annual conference, and freely exchanging scientific data. All pulling in the same direction, with a university, remarkably, at the helm.

She wants to make it easier for women to return to higher education and employment after they have raised their children. Many women returners have lost their confidence to compete intellectually and need special help.

At Lucy Cavendish a Fellow of the college serves as director of studies to advise on the programme of studies and arrange teaching as required. It is a small, supportive community, there is no High Table and common rooms are shared by staff and students alike. Students are often older than the teachers.

Students come from backgrounds as housewives, secretaries, nurses, bank cashiers, single or married, with or without children (though there is no accommodation for children yet).

The college has its own entrance test designed to discover not factual knowledge but potential for study. There is a three hours general paper and another more subject-directed. Then there are interviews to probe subject motivation, and whether the student can take the strain, how determined they are, what their family and financial situation is.

Some 64 people were interviewed this year and 24 places were offered, some with conditions that A levels or similar requirements were necessary.

In the last five years only one student has failed to finish her course and the college is near the Cambridge average for numbers of students in the first and 21 grade. That academic achievement has increased dramatically in the last few years, along with a tendency for students to be slightly younger, around 30 years of age.

"The results we get put paid to any suggestion that we are second class because we came up last," Dame Anne said.

"The college grew up in the kind of do-it-yourself image and people thought you did not have time to be academic. But we have proved our worth. Second chance is not second rate."

Out on their own and learning to survive

Most of the 145,000 students who graduated last year found jobs in large firms, the public sector or the professions. A sizeable proportion went on to take other courses and there was still a significant element of unemployment, but fewer than 1,000 went into business on their own.

This is hardly surprising, given the risks involved and the difficulty of raising the necessary capital to provide a sound start. But it is a much lower figure than the equivalent in the United States, Japan or West Germany, where there is a stronger tradition of going it alone straight from university. A number of possible explanations have been offered for this phenomenon, including a prevailing ethos in British higher education which does not value, much less foster, entrepreneurship. But perhaps the most significant obstacle is the shortage of relevant business training for those who do want to take the plunge.

One initiative designed to put this right began a year ago at the Cranfield School of Management and recently held an exhibition in the City of London to display the work of 25 graduates from the first course. Their ventures range from a party planning agency to a legal software company, a hologram display system and a road haulage service.

In all, 45 graduates were selected for the first Graduate Enterprise Programme, funded by the Manpower Services Commission, they came from an initial field of 1,600 expressing interest in the scheme, all of whom had to be graduating in 1984 to qualify. All were invited to "start-up seminars" organized on a regional basis but half were discouraged by the blunt account they were given of their prospects. The seminars are designed to put off those who lack confidence in their project and determination to succeed, and they do.

The 800 who remained were then seen by local counsellors, who discussed each individual's business idea in detail and offered help in making formal applications for those still not disillusioned. In fact, only about 10 per cent of those who made initial inquiries applied, and even they were whittled down further according to their counsellor's recommendation before being invited to a two-day session of further evaluation.

In the end, 45 offers of places were made and such was the success of those who did embark on the course that the MSC has agreed to expand this year's intake to 70, involving Durham and Warwick universities as well as Cranfield. It puts the full level of support offered to the graduates at more than



Enterprising reward: (from left) Christine Wallis, who runs Woolpack designer knitwear, the Lord Mayor of London - Sir Allan Davis, Cranfield and Wendy South, who runs Wendy South Designs at the Graduate Enterprise Exhibition.

£6,000 over 18 months, including training, counselling, aftercare and cash grants. Each participant is given £1,200 to spend on market research, for example, and some will qualify for Allowance.

The scheme offers assistance from the National Westminster Bank, British Petroleum, the British Institute of Management and the accountants Arthur Andersen, as well as from the business school itself. Three months of

intensive work on the graduates' business plans prepares them for the launch, although some have actually formed their companies before beginning the course.

Only 25 of the 45 offered places on this year's course took part in the exhibition at BP's headquarters, but none has had a disaster as yet (although Cranfield staff admit that one is inevitable sooner or later). One member of the course decided that he was not ready to go into business on his

It is a well-known fact that, as soon as Adam and Eve had been booted out of the garden of Eden, Eve remarked to her husband, "Darling, we live in a period of rapid social change!" The changes which have recently affected the voluntary sector in higher education have come as suddenly and dramatically as the Fall itself. Yet what forbidden fruit have the colleges consumed? Is there really displeasure from on high with those very institutions which were bringing a Christian voice and a Christian presence to higher education?

The fall and fall of the voluntary colleges makes grim reading. In 1969 there were 51 voluntary colleges, just over half of them Church of England, and 107 colleges provided by I.E.A.s. Since 1969 there has been a virtual wipe-out of this sector of higher education. In 16 years, 16 Church of England colleges have disappeared, some by merger, more by closure. In some cases stronger combined institutions have emerged. But with fewer than a dozen Anglican colleges left and a Secretary of State baying loudly for the speedy spillage of yet more college blood, the question of the distinctiveness of the survivors can be shelved no longer.

There are two broad views about the remaining voluntary colleges in higher education. One assessment, often assumed if less often articulated, is that since Christian faith and Christian institutions have become more marginal to more people since the colleges were set up (and about that there can be little doubt), the colleges themselves have become an anachronism. Their time has come; it has also gone. If mergers or amalgamations with bigger secular institutions are possible (even if they amount to disappearance without trace) then they are likely to be thought prudent and encouraged — the involuntary enthusiasm of the voluntary colleges.

The other view, of which I am a partisan supporter, is that whatever institutional rearrangements may be thought desirable in higher education, the church colleges will survive and will deserve to survive only if they remain distinctive within it. So far, so good. The trickier question is: What form should this distinctiveness take?

The predicament of the church colleges is illuminated by a "disquieting suggestion" propounded by the philosopher Alan MacIntyre, in his *After Virtue* (Duckworth, 1981). He is invited to imagine a time when the sciences fall into disrepute, perhaps after a succession of disasters like that on Three Mile Island in 1979. Scientists are lynched, laboratories burnt down, and finally a Know-Nothing party takes power. Books are burnt, equipment smashed, scientific inquiry becomes a crime. Finally the Know-Nothing party is removed from power, and science can resume. The problem is, no one any longer knows how.

"... all that the people are fragments: a knowledge of experience detached from the knowledge of the theoretical context which gave them significance; parts of theories unrelated... to the other bits and pieces of theory which they possess... instruments whose use has been forgotten, half-chapters from books, single pages from articles, not always fully legible because torn and charred."

The conclusion we are invited to draw is not about science but about morality. It is "that in the actual world which we inhabit the language of morality is in the same state of grave disorder as the language of natural science in the imaginary world which I described". I think this comparison is far-sighted and far-reaching. I did it only that the language of religion is also in a state of grave disorder. A tradition which brought forth the voluntary colleges and which even now represents, is bequeathed to us and we don't know how to avail ourselves of it. Like the would-be scientists trying to re-establish their disciplines, we may not even know what it is that we have lost.

The voluntary colleges are a remnant in the modern system of secular higher education, and as a remnant they can make a contribution to it out of all proportion to their size. The more established ones pre-date all our polytechnics and most of the universities. They have a proud record. They are undoubtedly odd institutions. They are not seminaries, training men and women for priesthood, but they are not straight secular places either, serving the purposes of the state and no other. This is why they are sometimes referred to as "half-way houses", "bridges" between two realms, or

Questions of faith in the light of experience

The voluntary college — a curious half-way house between seminary and I.E.A. further education — is threatened with extinction. Adrian Thatcher makes a plea for its survival.

"meeting places", not that, is, places where the secular world can be lectured about its godlessness, but where Christian values are "seen as a communal resource to be shared and debated alongside other values". (*The Future of the Anglican Colleges*, Interim Paper 3, Culham College Institute, Abingdon, 1985, p.32).

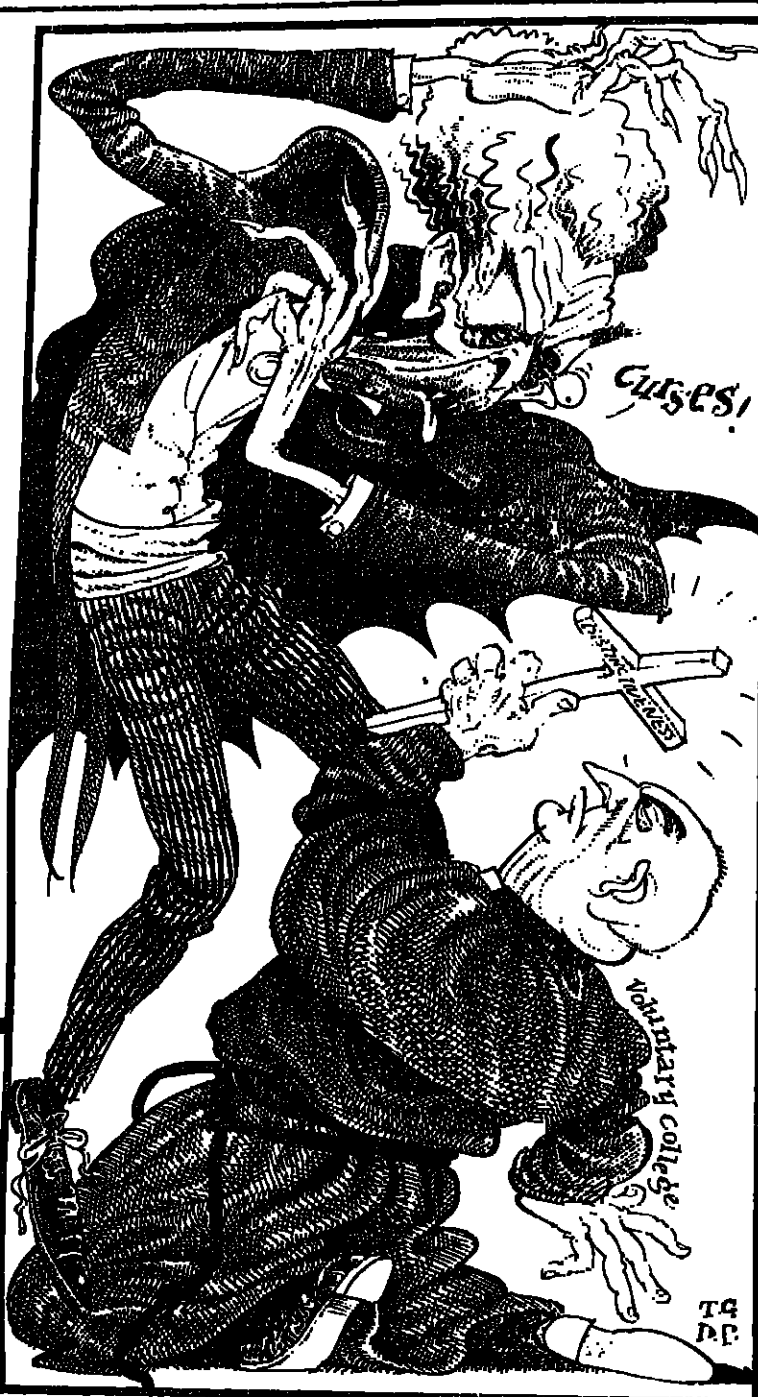
The colleges grew up out of an attempt to bring Christian faith to bear on a particular social need, and as a result to engage in social action. They are well suited to make connections between that religious tradition which produced them and the equally harsh social and intellectual realities of today. The problem is: given the vastly different religious and intellectual climate nearly 150 years on, how can this distinctiveness be expressed?

Let's first say what *isn't* meant by distinctiveness. The "incorporation option" would make the colleges distinctive. And it would empty them at the same time. Compulsory chapel might be re-introduced; halls segregated; debates could replace discourses; the religious thought police could patrol sociology lectures. Vicars could use their votes at internal validation. And "Forward into the Past" might be the new logo of the VSCC. Values might be imposed, world-views enforced, mores monitored and academic freedoms compromised, but hardly *ad maiorem dei gloriam*.

These misconceptions, doubtless exaggerated, arise because the colleges have few signs to follow into the future and some bad memories of the past. But if a past generation of church colleges was in some respects too self-consciously religious, the opposite and greater danger is that another generation will be self-consciously non-religious, pretending to conceal its awkwardness in the face of God's absence.

Other voices concede the need for distinctiveness while wishing to express it in ways that turn out not to be distinctive at all. What might be called the clerical argument, the care argument and the community argument are all heard at the present time, and none of them is valid. According to the clerical argument, chapel and chaplain make a vital contribution to college life and so renders it distinctive. This may be true, but chapels and chaplains play an important part in non-church colleges too, where the absence of any institutional attempt to provide religious ethos aids them in providing a flourishing yet independent ministry and presence. So as a comparative argument the clerical argument gets us nowhere.

The care argument has two standard forms. Church colleges care more for their students; and, provide smaller, and thus more effective, educational environments. Neither form can establish the distinctiveness of a church college. The colleges make credible provision for the pastoral care of their students: so do the I.E.A. colleges and



the polytechnics, which can provide teams of trained and professional counsellors. In any case, student unions are increasingly providers of the personal services their members want. What of the small-scale atmosphere of some (though not all) of the church colleges? At least, so the arguments runs, small is caring, even if it is no longer beautiful.

Undoubtedly, some applicants choose the colleges because of their size. Smallness though is not a quality monopolized by the voluntary sector. Even if it was, it remains doubtful whether this version of the caring argument establishes anything. Some people believe that large comprehensive schools are uncaring institutions on account of their size. They believe in an inverse law between the size of an institution and the quality of the relationships within it. But this belief entirely overlooks the elaborate provision comprehensive schools make for pastoral care, and are well able to make, just because of their size. Doubtless there are caring and loving environments at all levels of education, but the relation of these to their size is much more complicated than the small is caring premise allows.

The community argument is a little more convincing but falls short of the distinctiveness the voluntary sector must re-establish. If the sector has helped to establish community involvement, community access and community service in higher education, then that is much to its credit. But again maintained institutions can now make equal claims to operate similar policies.

In short, all three arguments confuse a necessary condition with a sufficient one. It is necessary that voluntary colleges maintain a formal religious ethos, care for their students, provide effective and pleasant learning environments and develop a range of links with their local neighbourhoods. Their achievements in all these areas taken cumulatively they are not sufficient to establish the distinctiveness of the sector.

They do not answer the question "what do voluntary colleges provide that the state sector does not?" They may provide a sufficient reason for student choosing a church college, but

they do not sufficiently tell us in what respects if any a church college differs from its more secular counterpart.

Fortunately there is a clear answer to the distinctiveness question. A church college should be distinctive by its curriculum. There will be components in it which would not be expected in an I.E.A. college or wholly secular place of learning. This is because what is at issue in the identity crisis of the colleges is a cognitive matter. The Christian faith makes genuine knowledge claims about what there is to be known and what responses are appropriate to that knowledge. These claims are certain to be contentious in an I.E.A. college or wholly secular place of learning. This is because what is at issue in the identity crisis of the colleges is a cognitive matter. The Christian faith makes genuine knowledge claims about what there is to be known and what responses are appropriate to that knowledge. These claims are certain to be contentious in an I.E.A. college or wholly secular place of learning. This is because what is at issue in the identity crisis of the colleges is a cognitive matter. The Christian faith makes genuine knowledge claims about what there is to be known and what responses are appropriate to that knowledge. These claims are certain to be contentious in an I.E.A. college or wholly secular place of learning.

In MacIntyre's imaginary world the philosophers carry on their business as usual. The analysts analyse while the phenomenologists conduct their value-free inquiries. In each case the methods they use give them not an inkling of the hiatus the Know-Nothing party has created. But those who contend that church colleges should just be secular look-alikes are remarkably like the imaginary philosophers who are unaware of a past rich heritage. Yet the church colleges, a small remnant in higher education, are uniquely placed to make connections with their own heritage, one which has disappeared too quickly.

The Church Colleges Research Project (confined to Anglican colleges) has shown that 73 per cent of staff have some sort of Christian affiliation. (Interim Paper no 6, p.3) No person here, then, with a distinctive curriculum. Presumably the other 27 per cent won't object to the suggestion of an atheist colleague of mine that "perhaps the influence of the Christian foundation should be to encourage the creation of an environment in which the various claims of the Christian faith can be critically examined, and their influence on a variety of academic disciplines and secular movements considered". This seems a fine approach to distinctiveness and one around which all members of the colleges should be able to unite regardless of religious differences.

But how might it be put into effect? Part of the learning experience of students will include, as a necessary curriculum design, some acquaintance with relevant parts of the Christian tradition. Courses will make connections between that tradition and the very different circumstances in which we now find ourselves. This should be quickly added, without being uncritically or imposed on us. Indeed this very tradition is far ambiguous and has to be confronted all its ambiguity. But connections can be made all the same.

But what connections? In teacher training provision we are required to take on many new ideas. Increasingly students on the B.Ed. courses have to be equipped to cope with the new pluralism, the multicultural society, bankrupt managerialism, social identity crisis, a profound uncertainty about moral and spiritual values, and so on. The Christian tradition has its contribution to make both to the diagnosis of these problems and to their resolution. Not least it offers a point of view that is not only any political party, pressure group or programme. Critical, value-free analysis has always been part of the Judeo-Christian tradition. It begins with the biblical prophets who cried out for justice for the poor in the face of harsh economic policies imposed by Israelite kings. The Archbishop of Canterbury's recent report *Faith in the City* shows that this tradition is still alive. The connections which will be made with largely depend on what courses are currently available in the colleges and what tutors, academic boards and validators decide. My place of work runs an innovative degree in recreation and community. Yet when the sociologists and the leisure and tourist experts have done their work it still remains to be pointed out that "recreation" is a theme of both biblical testaments, that it has a religious history, which a church college might be expected to command. (In the old tradition myth even God needed to make a world was a tiring business.) As for "community" (that overused word), Christians take their understanding of that from the church where in Christ "There is neither Jew nor Greek, slave nor free, male nor female". (*Galatians 3.28*) That is a more modern idiom, there is no discrimination against anyone on grounds of race, class or gender.

Similar connections can be made in humanities degrees. Most of the church colleges have one of these, or an equivalent. The Christian tradition has its own account of humanness and its own exemplification of what perfect humanness might be. There may, however, be a difficulty with this proposal for curricular distinctiveness — the very people who would run it (the academic staff) appear not to want it. The research project already cited reports that few staff "considered Christianity should be an important element in influencing the curriculum". The suggestion on the curriculum ranked low in a list of objectives which were put to staff. This finding can be explained in a number of ways. Any unqualified mention of a religious distinctiveness bound to evoke suspicions of intolerance with academic freedom, the deference to religious studies departments, and so on. In the absence of any detail about how the Christian tradition might influence the suggestion is rejected. A survey designed merely to test current attitudes towards pre-defined options, rather like the world of MacIntyre's imaginary phenomenologists, cannot be expected to arrive at the deeper considerations which are crucial to the analysis.

What is needed instead is for each college to produce a series of modest distinctiveness, in which staff are involved at every stage. It should then be possible to arrive at a verdict, one way or the other.

Only a distinctive curriculum makes the church colleges genuinely distinctive. In practice, however, it will come about with other qualities such as size, quality, care, community-orientation and the innovation which gives the whole sector a special record. But in the final analysis church colleges are religious. This is their *raison d'être*, and their great opportunity.

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The accession of George I in August 1714 presented the Whig party with an excellent opportunity to establish its political ascendancy and to proscribe its Tory opponents. Encouraged by an electoral victory which gave them a majority of nearly 130 in the House of Commons, they carried out this strategy with ruthless efficiency between 1714 and 1716. After ostracizing their adversaries to those institutions which played an important part in maintaining and disseminating Tory ideals, many Whigs regarded the universities of Oxford and Cambridge as centres of disaffection and welcomed any steps "to curb the insolence of these two seditious seminaries".

To emphasize the point, there were serious disturbances at both universities in May 1715 and the Secretary of State for the Northern Department, Charles, Viscount Townshend, "sent ratiocators" to Oxford rebuking the university authorities for failing to suppress this disorder. There were also growing demands for action from within the universities by those sympathetic to the administration, and a majority of the bishops, including William Wake, Archbishop of Canterbury, advocated ministerial intervention at Oxford and Cambridge.

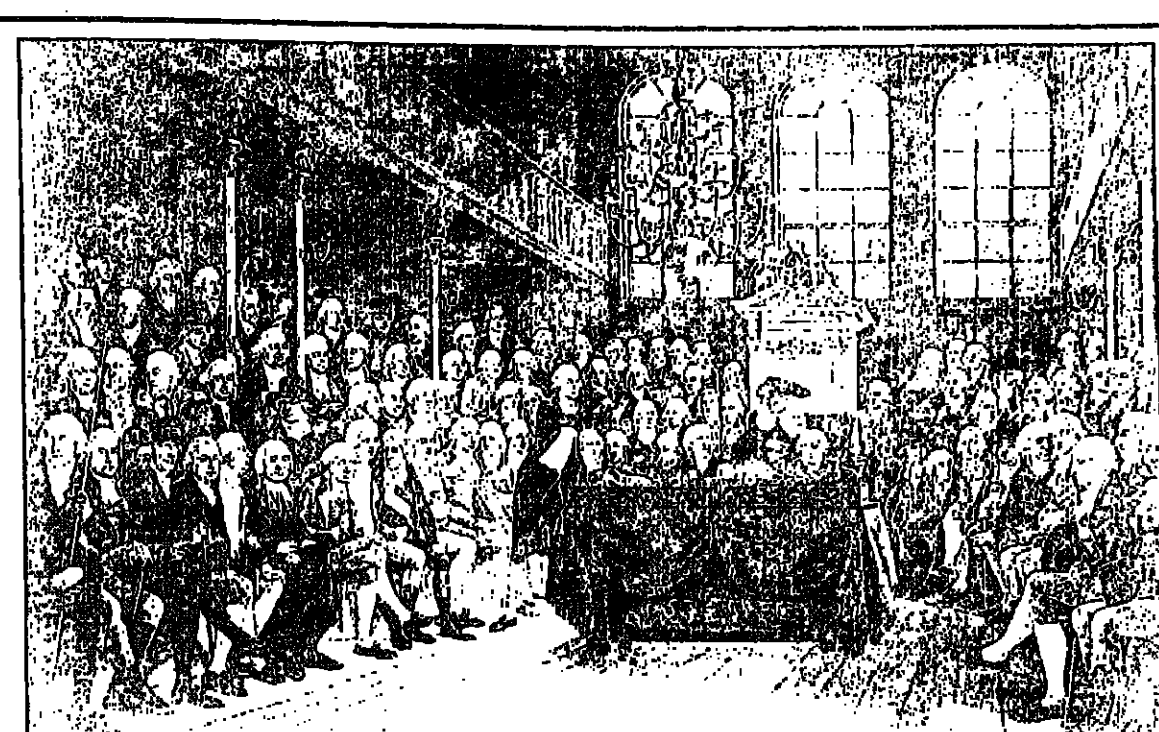
Discussions involving Townshend and Humphrey Prideaux, Dean of Norwich, took place in November 1715 in order to formulate a plan of action. Prideaux was convinced that an Act of Parliament, granting the King significant visitatorial powers over the two universities, was the only way to proceed. At Townshend's request he drew up detailed recommendations for improving the discipline and the standard of learning at Oxford and Cambridge.

Though the outbreak of a Jacobite rebellion in the second half of 1715 diverted attention elsewhere, it also served to reinforce Whig resolve to humble the universities. In the spring of 1716 Lord Chancellor Cowper, Lord Chief Justice Parker, and the Archbishop of Canterbury drew up a draft reform bill. It stipulated that the nomination and appointment of university officials was to be vested in the Crown or in a Commission established by the King. Any university or college officer who refused to acknowledge the King's authority was to be removed from office. This was to be reinforced by Whig resolve to humble the universities. In the spring of 1716 Lord Chancellor Cowper, Lord Chief Justice Parker, and the Archbishop of Canterbury drew up a draft reform bill. It stipulated that the nomination and appointment of university officials was to be vested in the Crown or in a Commission established by the King. Any university or college officer who refused to acknowledge the King's authority was to be removed from office. This was to be reinforced by Whig resolve to humble the universities. In the spring of 1716 Lord Chancellor Cowper, Lord Chief Justice Parker, and the Archbishop of Canterbury drew up a draft reform bill. It stipulated that the nomination and appointment of university officials was to be vested in the Crown or in a Commission established by the King. Any university or college officer who refused to acknowledge the King's authority was to be removed from office. This was to be reinforced by Whig resolve to humble the universities.

It was inevitable that there would be some disappointments at the distribution of places and power that accompanied the Hanoverian Succession. The most disgruntled Whig politician was Charles Spencer, third Earl of Sunderland. Self-confident and ambitious by nature, Sunderland was outraged by Townshend's appointment as Northern Secretary, the post he himself coveted, and by his being forced to accept the Lord Lieutenant of Ireland as compensation.

Sunderland was also on steadily worsening terms with the powerful Scottish magnate, the Duke of Argyll, who appeared as another obstacle to his political ambitions. After consolidating his strength, Sunderland struck at his rivals in 1716. His intrigues with the King and the Secretary of State for the South, James Stanhope, led to Argyll's dismissal and Townshend's resignation to Sunderland's former office of Lord Lieutenant of Ireland. Once established as Prime Minister, Sunderland sought to restore divisions in the Whig party which stemmed from his personal triumph and the disagreement over the conduct of foreign policy. He believed that legislation to reform the universities and to repeal the Occasional Conformity and Schism Acts would provide a perfect remedy. Unfortunately, at the same time a group of Whigs had begun to question the wisdom of the government's policies.

The reasons for the growing tension in the Whig hierarchy were personal and political. Townshend and his brother-in-law Robert Walpole, who was Chancellor of the Exchequer and First Lord of the Treasury, obviously disagreed over Sunderland's leadership because he had obtained the premiership at their expense. Yet it is also clear that many Whigs, including Townshend and Walpole, had begun to have serious doubts concerning the assumption upon which government policy was based.



Trials and visitations

by Graham Townend

The Jarratt report on efficiency in the universities and the Green Paper *The Development of Higher Education into the 1990s*, have left no doubt about the determination of Margaret Thatcher's administration to challenge the consensus of the past two decades. With its large parliamentary majority, the Government has ignored the protests of the country's educators. Surprisingly, however, it was in the House of Commons where the administration

encountered its most dangerous opponents.

As yet it is unclear if this disquiet could force the Prime Minister to reconsider but there are interesting parallels with similar developments in the early 18th century. During the reign of King George I a radical Whig ministry, with an overwhelming superiority in Parliament, was unable to reform the universities of Oxford and Cambridge because of the hostility of a group of prominent Whigs.

tions upon which government policy was based.

In response, they had started to formulate a more pragmatic political outlook in contrast to what they felt was growing ministerial recklessness. There were differences on a number of issues including religion and foreign affairs, and men who had formerly advocated university reform now adopted a strategy of non-interference at Oxford and Cambridge. Their views came to the fore in March 1717, Sunderland and Stanhope had wanted to mention a Royal Visitation of the universities in the King's speech to Parliament, but this suggestion was rejected by Wake, Cowper, Orford and other Whigs.

Almost simultaneously, the Duke of Devonshire announced "that he would as soon consent to a bill for divesting him of Chatsworth as for depriving the universities of their privileges". Archbishop Wake was the odd man out in this group since he favoured reforming the universities, but he was not prepared to support it if the ministry went ahead with the repeal of the Occasional Conformity and Schism Acts as well.

Because of his opposition Wake was subjected to frequent visits "by our great men severely and diversely touching methods for reformation of the universities by creating a trust in the King or his Commissioners". Lord Cowper, meanwhile, was trying to persuade Sunderland and Stanhope to reconsider introducing the University Bill into Parliament. The Lord Chancellor had dinner with them on March 13, 1717 where he gave his opinion that it was unwise to proceed with the bill to reform at the same time as the bill to repeal the Occasional Conformity and Schism Acts. Cowper told Wake that "upon this they took a sudden turn and became resolved to have this of repeal first, and postpone that concerning the universities, which, your Grace knows, how lately and how much the King, as they said, had set his heart upon". Cowper probably exaggerated his influence, or had been drunk for it is clear that Sunderland still intended to go ahead with the University Bill and he was doubtless encouraged by recent developments in the House of Lords.

The birthday of the Prince of Wales, on October 1716, had been the excuse for serious disorder at Oxford involving

ing townsmen and the troops that had been garrisoned there during the 1715 rebellion. A number of complaints were made against the soldiers and, despite the fact that the Privy Council had decided in their favour, the House of Lords accepted a Tory appeal to debate the cause on April 3, 1717.

In their eagerness to vindicate the university, the mayor, and the magistrates of Oxford, the Archbishop of York and the Bishops of Rochester, Chester and Bristol made a serious blunder by concentrating on refuting the allegation that the celebrations to mark the Prince's birthday were inadequate, rather than focusing on the actual disturbances.

This allowed the government spokesmen including Sunderland, Townshend, Parker and Cowper to condemn the lack of festivities. The House then passed two resolutions vindicating the soldiers and criticizing the university. Sunderland wanted to exploit Whig hostility towards Oxford, but before he could whip up this sentiment the unity of the party had finally shattered.

By March 1717 Townshend and Walpole were openly expressing their dissatisfaction. Townshend had attacked the administration in the House of Lords and retribution quickly followed with his dismissal on April 9, 1717. In response Walpole, Devonshire, Orford, Pulteney, Methuen and their followers went into opposition. Cowper, however, remained in office as Lord Chancellor, but he became increasingly isolated and disillusioned and was to resign himself at the beginning of 1718. The government was now threatened by a group of dissident Whigs as well as their more conventional Tory opponents and if these two factions could create an effective coalition they could seriously undermine the government's administration.

Sunderland was well aware of this danger and he hoped that an appeal to basic Whig attitudes, in the form of the University Bill, might draw off enough opposition Whigs to weaken his enemies and to undermine any projected combination with the Tories. He informed Cowper, in May 1717, that there was "a Committee of the Lords to meet tonight at the Cockpit, I hope we shall have the honour of seeing your Lordship there, and I beg you would bring with you the University Bill, the

Bentley of all his deprecations on October 17, 1718. Bentley at once petitioned the King, as supreme visitor, complaining that he had been suspended without either a summons or a hearing.

Ostensibly the Bentley affair was a minor academic dispute but contemporary states were well aware of its political significance. Dr Gough appeared before a Committee of the Council on November 6, 1718 where, in the presence of George I, he was cross-examined by Sunderland, Lord Chancellor Parker, and the Archbishop of Canterbury. Bentley and Gough were then ordered to put their arguments in writing for the further consideration of the Committee. During November and early December it examined the Acts of Parliament pertaining to the various charters and grants made to Oxford and Cambridge, together with the powers relating to the right of visitation.

The report, issued on December 10, 1718, declared that the King had an undoubted right to appoint a Royal Commission to undertake a visitation of the two universities. Immediate action was expected. Edward Harley, junior, remarked that "a visitation of both universities is very warmly talked of". Robert Walpole, in a speech in the House of Commons attacking the repeal of the Occasional Conformity and Schism Acts, announced, in January 1719, "that there was a design of visiting the universities".

Nothing was attempted in the course of the 1718-1719 sitting because the administration was pre-occupied with the repeal of the Occasional Conformity and Schism Acts and promoting the Peerage Bill. Though Sunderland had to make some concessions in the House of Lords, he managed to persuade Parliament to accept the repeal bill, but, owing to mounting hostility in the House of Commons, he was forced to drop the Peerage Bill in April 1719. Sunderland was intent on renewing the struggle at the next meeting of Parliament. As part of the preparations a Committee of the Council met at St James's where a further committee was established "to consider of a form of a commission for visiting the University of Cambridge, as well as in this particular care of Dr Bentley, as in such others as shall be thought proper".

Sunderland, meanwhile, was busy rooting out opposition to his government among King George's Hanoverian ministers. By October 1719 he was informing his associates that "the King is more determined than ever to persist with vigour in the measures you and your friends wish. He is resolved to push the Peerage Bill, the University Bill, and the repeal of the Septennial Bill. If this won't unite the Whigs nothing will".

Unfortunately, Sunderland's plan, rather than binding the Whigs together, had the opposite effect; it reinforced the divisions. It was this which was to prove the undoing of the Prime Minister's design. The Peerage Bill was introduced into the House of Lords in November 1719 and it had been approved by the end of the month. In the House of Commons, however, it was a radically different second reading there was a debate which lasted for almost eight hours; it was Robert Walpole who made the decisive contribution against this measure. A ministerial attempt to have the bill committed was rejected by 269 votes to 177 and the bill was then thrown out without a division.

Sunderland knew that he would have to abandon both the University Bill and the repeal of the Septennial Act as a result of this defeat and he made no further attempt to reform the universities. Sunderland died in April 1722 and Walpole replaced him as Prime Minister. The government now adopted a policy of compromise and conciliation towards Oxford and Cambridge.

In 1723, Walpole's ecclesiastical adviser, Edmund Gibson, Bishop of London, launched a scheme under which 12 dons from both universities were to take up duties in the Royal Chapel for a month each. The following year Townshend and Gibson founded the Regius Professorships of Modern History and Languages at Oxford and Cambridge. Clearly the ministry was trying to improve the universities for their good will, and though this policy was only partially successful it was a marked contrast to the vigorous reformism of the Sunderland administration.

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Richard Cobb

Specialism, self-indulgence and call of the valleys

The letters came back with depressing regularity and predictability. I was, they all pointed out, "lacking in research experience", my field of research, though "interesting and original", was "too narrowly specialized". Sometimes they would go on to point out that I appeared to have little knowledge of English history and that this constituted a "grave gap".

In a letter from Lord Lindsay, I was told that my interests were too local "for the wide scope provided by the syllabus of the University of Keele". Generally I did not even need to read on to the end of these politely worded expressions of regret to get the general drift.

I could of course have pointed out — not that I would have done any good — that I did have some teaching experience, though only in that of teaching English to Poles and Czechs, and, later, in a variety of French institutions; the lycée Saint-Louis d'Alger, and Hoche (as, like an 18th-century *parlementaire*, I was driven out of the centre of Paris to banishment *sur le poulvoir*, though never as far as Pont-toube or Provins); *Air France* (hôtels de l'air, a most agreeable assignment); the *École Nationale de la Marine Marchande* (wireless-operators), the *École Nationale d'Agronomie* (as a purely notional *leçon d'anglais*, for I had no pupils and merely drew my monthly pay packet from the *riche Claude-Bernard*), the *Centre National des Télécommunications*, the *École des Francs-Bourgeois* (run by the literally heavy-handed *frères de l'école chrétienne*), the *Cours Pigeur* (for aspiring typists and stenographers), and, bringing up a banal rear, as if in imitation of a Queneau novel set modestly in Ruei-Malmaison and the *bois de Saint-Germain*, the *Pension Bigot* in Engelen-les-Bains, a crammer's establishment for those who had failed the June sitting of the bac and who, under my firm guidance, awaited it out under the glass roof of the *pensionnat* during the months of July and August. The *Pension* provided in fact my only source of income during the difficult period of the long summer break.

Not was that quite all. In the army, apart from Poles and Czechs, I had been provided with a remarkably varied group of military lilliputians: shepherds from Snowdonia, Cypriotes and Egyptians, and a surprising number of genuine Cockneys who had London school system till the age of 14 or 15 without ever acquiring the first rudiments of reading and writing.

It was better not to refer to the two teaching appointments that I had accepted and that, at the last moment, I had not taken up: that of French Master at Uppingham in 1940 (a job told by the senior French master that he bunted regularly to hounds, and that I would also have to teach something very keen on current affairs), and an assistantship in French at the University of Glasgow in 1948.

I had, too, been fairly unlucky in my timing: 1917 had been a bad year to have been born in. I had got a Second in June 1938, and then had about 14 months' research in the *Archives Nationales* in Paris on a thesis devoted to the (brief and bloody) life of the *libériste* leader, François-Nicolas Vincent, secretary-general of the Ministry of War in 1793-1794, and guillotined in the spring of the latter year.

As a bachelor, with no job to return to, I was right at the back of the queue for demobilization, and, had it not been for the providential atom bomb, I would almost certainly have found myself posted to the Far East, facing an intact Japanese Home Army of

three million men, after the end of the war in Europe. In October 1946, when I left the army, all I could show for myself was the title of MA (Oxon). I made what I could of this behind my name in a series of contributions to the *Tribune Libre de Le Monde* in the early 1950s, as *Maître-à-Arts de l'Université d'Oxford*. It did sound a good deal more impressive than in the original; and the *as* was my own rather happy inspiration. But there was nothing much I could do with "One-time Postmaster of Merton College".

It is true that I was indeed an 18th-century historian, or at least fancied myself as such. But I could not see what the French would have made of my description of myself as a *maître-de-poste*, a job that had gone under with the disappearance of the mail-coaches. British academic titles do not translate easily.

It stands to reason that it is hard to acquire experience of university teaching if one is never given the opportunity to teach in a university. For several years—10 or so—I reflected rather bitterly on the unfairness of such a situation, as polite letter of regret after polite letter of regret reached me at No. 12, rue de Tournon (Vime).

An article on the barges of the Seine and Oslo Valleys indicated my irredeemable specialization. The longer my list of publications, the more remote became my chances of employment. Of course I did not worry too much, because I was quite idyllically happy in Paris. Georges Lefebvre, *directeur de recherches*, urged me to switch to research in English history. But I was much too firmly set in my ways.

In the end, my combination of persistent research for its own sake and sheer self-indulgence in archival exploration paid off, though not as a result of any active efforts on my own part. My benefactors, though I did not know it at the time, were Albert Cozmin and the late John Bromley. The former had heard me read a paper — my first to that delightful Sunday morning gathering — to the *Société d'Histoire Moderne*.

He had spoken to Mr Bromley on his return to Oxford, and I had been invited to give a talk to the Oxford Eighteenth Century Group at Christ Church. My talk, in a bizarre Franco-decadentist and the related subject of the destruction of dogs during the Terror.

The dog bit turned up a little later in one of the novels of my New Zealand friend, Dan Drayn, who had been at the talk. Soon I acquired some more equally powerful backers: Christopher Hill, Goronwy Roes, and, most important, the French Revolution historian, Alain Davies. In the spring of 1955, the archives in 1939 (he had remained there, blissfully unaware of anything happening outside the Palais Soubise, Dinard just ahead of the Germans, and returning to Wales on a collier) sent me a tourist guide to the principality.

I was puzzled at the time by his present. But in the summer I was called for an interview at Aberystwyth and was offered a full lectureship in modern history. I was then 38, had no previous experience of university teaching, had almost lost the use of English, and had written nothing in that language (unless, as my friend, Christ Church talk could have been so described) for well over 10 years. It was a back-to-front sort of situation, imposed on my unwilling self. My unplanned career thus all at once lurched forward into a totally new direction under the benign and utterly charming protection of Goronwy Roes, then principal of U.C.W. (but not for long).



The final frontier: on the waterfront of Bangkok's Mahanak canal

Made in Bangkok

David Hind on the mixture of East and West that makes Thailand an object lesson in interdisciplinary studies

At 10.55am last December 15 a party of 10 students and three lecturers boarded a Royal Jordanian Airline's Lockheed Tristar bound for Bangkok, Thailand. The purpose of the journey was to spend 16 days travelling around Thailand on an educational field visit, relating the subjects that the students study (business subjects and geography) to the third world. In total, we covered 1,200 miles travelling by train, bus, jeep, taxi and tri-shaw. Our field trip started in Bangkok before visiting Chiang Mai, Thailand's second largest city, from where we journeyed to the Golden Triangle. The final days of our trip were spent in the coastal region of the Gulf of Thailand.

Thailand was chosen as the destination for the field trip for a number of reasons. The kingdom is at the crossroads between east and west, being the final frontier of capitalism before entering the vast communist bloc that made up of Burma, Laos, Kampuchea, Vietnam and China. Thus, Thailand offers the opportunity to observe the great political and social contrasts that exist in south-east Asia.

To enhance our experience of the country we travelled and lived as the Thais do, which allowed us to gain a greater appreciation and sympathy of people less fortunate than ourselves. No matter the discipline of the academic, Thailand has something to offer whether it be issues of international business strategy or rural development problems in the third world.

Six million Thais, 11 per cent of the population, live in Bangkok. This figure is increasing as migrants enter the metropolis from the rural areas looking for employment. Some guidebooks describe Bangkok as the "Venice of the East" — to the west of the city a million people live in huts built on stilts over the klongs (canals). Many of these dwellers have been forced to live over the waterways due to the land shortages and overcrowding in the central built-up area of Bangkok.

Indeed, Chinatown, the area surrounding Yaowrat Road, has a highly intensive land use pattern that is becoming increasingly congested. Market stalls selling tropical fruits, vegetables, fish and meat cram the alleysways between old tenement blocks, the ground floor of which are used as workshops or food stalls with living accommodation to be found above.

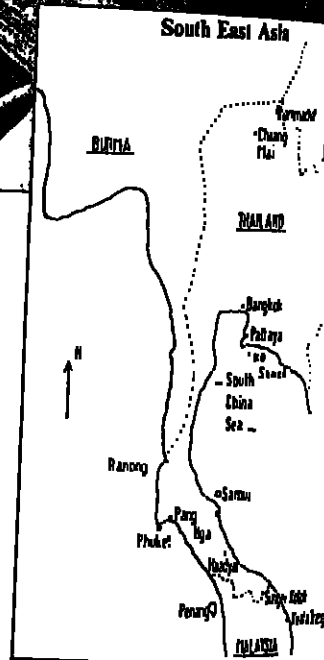
above. Young Thai men draining blood from recently killed chickens compete for valuable space with coffee-makers next door to Chinese pharmacists selling traditional potions and herbs to cure every conceivable ailment. All of these activities combine to produce a cauldron of unforgettable noises and stomach churning smells that are the trademarks of Bangkok.

Areas of Bangkok such as Chinatown provide enormous potential for the human geographer who wishes to investigate the social geography of the city. The business studies student is equally rewarded by observing how large multinationals such as Coca-Cola and Guinness have to adapt their marketing strategies to take account of the divergent culture of Thailand. The graphics and message have been redesigned to cater for the different tastes of the Thai people. A study of the legal aspects of conducting business in Thailand uncovers the bureaucracy and red-tape that foreign businessmen encounter when they wish to operate in this part of the world.

A field trip to Thailand, though, would not be complete without investigating the rural way of life that 80 per cent of the population follow. To sample the peasant farming economy our party travelled right to the northernmost point of Thailand, to the Golden Triangle, where the borders of Thailand, Burma and Laos meet. In life has changed little through the ages. Lumbering water buffalo still drag their primitive wooden ploughs through the deeply flooded paddy fields. The villagers live a subsistence life spending the afternoons hunting, shooting or fishing, trying to catch vital protein for their rice-based diet. The extended family is still much in evidence; the boys work the land and the girls, if the family is poor, are sent to work in the bars and nightclubs of Bangkok and Pattaya.

In the hills of northern Thailand live primitive migrants from Laos and Burma — the hill tribespeople. These tribes, such as the Akha, farm the upper hill slopes growing rice, maize and, previously, the notorious opium poppy. They live in bamboo huts whose long sloping roofs nearly reach the ground and preserve their own quaint costumes, dialects and customs — impervious to modern ways and walking a tightrope between survival and death.

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The rise of the administrator

Geoffrey Lockwood on the CUA's silver jubilee

This year is the silver jubilee of the first national meeting of university administrators. In 1961 university administrators were fragmented within their institutions, isolated from colleagues and largely ignorant of both management techniques and the wider history and trends of higher education and its development. In 25 years the rise of the internal civil service, the growth of inter-institutional associations have not only eradicated those features of 1961 but have affected the basics of university management.

Universities, as such, have not been the object of much analysis, perhaps because most scholarship is undertaken by academic staff and because they have a vested interest in their base not being the object of analysis. While recognizing the existence of diversity and counter-trends, the early history of administration in universities consisted of two strands: the rise of the academic staff undertaking administrative functions, in the monastic or church tradition, and the hiring of clerks to perform recorder roles, in the tradition of the professions and royal courts. Modern university administration developed from the interweaving of these two strands, though the two strands have not been entwined in some institutions even today.

The main development of what we now regard as professional university administration is the result of the commitment in the later 1950s and the expansion of the universities in the 1960s. Manchester turned out to be its principal birthplace. The then registrar of the Victoria University of Manchester, Vincent Knowles, took the root of the first strand and grafted it into the second strand. He recruited first class graduates, before they had time to become academics, in the knowledge that their intellectual abilities would lead them to extend the "recorder" function into the realms of policy and management. That act of recruiting from the same elite as for academic staff but into career administration, and on the same basic terms of employment as academic staff, might have remained a peculiarity of Manchester but for the expansion which followed.

Manchester was able to export its notions and talent for two reasons. First, because the expansion itself greatly increased the volume of administrative work and created new universities responsive to professional administration. Second, the prospects for academic staff, in terms of both academic work and personal promotion, were such that they sacrificed the monastic tradition; and in effect handed over administration to the career administrator without knowing what they had done or what the consequences would be. Thus the 1960s saw the flowering of the internal civil service.

The principal features of the concept of an internal civil service can be summarized as follows:

- the administration is treated as an entity; a formal unit in the organizational structure, like the library or a faculty, with a single budget, plan, and establishment. An organizational boundary has become drawn around the administration and not its component offices or sections;
- the administration is staffed, in the main, with career administrators; those career administrators generally hold permanent appointments, after an initial probationary period, on conditions of service common to all universities, related to those of academic staff, but different from any other realm of public administration;
- the members of the administration are employed by the individual institutions and have low external allegiances.

The British university administrator is, in the tradition of Bentham, Hume and Beveridge, an institutional person dedicated to maintaining and improving that institution through good administration regardless of his or her personal allegiances.

- the administration is staffed largely by generalists, educated in the university system but drawn from a wide variety of disciplines, and they are trained while in employment. Ideally they will obtain experience of most facets of administrative work in a university;
- the style of the administration is characterized by the assumption that it has no decision-making powers; the dominating philosophy is that the

internal civil service has influence through its advisory and information functions and its implementation role but has no power. In reality, and in certain areas and situations, the internal civil servants do exercise power and are effectively decision-takers but the image carefully obfuscates those managerial roles and places the emphasis upon service to decision-takers. I wish to address two basic questions: first, have university administrators made the most of the opportunities presented by the expansion of the universities and by the pressures placed upon the universities by the environment? Second, has the direction of development of university administration set by the expansion of the 1960s been beneficial?

The first question is not simple to answer. Career administrators have increased vastly in numbers and in role while retaining their basic service functions. In many institutions, whether it was coping with student militancy in the 1970s or the need for planning in the adverse conditions of the 1980s, the administration has frequently taken the lead and individual administrators suffered the consequences. People recruited to university administration with no knowledge of the histories of universities, the legal status of universities, the world of external relations, the nature of accountability etc have both trained themselves in those fields and become adept at handling them. The basic roles of the internal civil service of the 1960s have been extended very considerably and many new ones added.

The existence of a servant class has led the academic staff to escape from responsibility

The negative side of the balance sheet has been outweighed by the positive but remains significant. The infusion of high grade graduates into administration in the 1950s and 1960s led them to replace academic staff in administrative work but to retain distinctions between themselves and the executive/managerial levels of staffing. Over the years that distinction has become increasingly dated, partly because of the employment of graduates in the executive/managerial grades, partly because of the impact of office technology but mainly because it has inhibited the necessary qualities of vertical integration and flexibility which a modern administration should possess.

The line of development already mentioned has tended to lead to a demarcation between the roles of academic and administrative staff. The existence of a class of administrative "servants" has increased the ability of the academic staff to retreat from responsibility, from facing the daily realities of coping out of their own work, and from the realities of the impact of changes in the external environment upon the future of the university and their own work. The demarcation has prevented the administrative staff from getting involved in the main, in the management of the academic heartland. The administration of a university should be very much about the usage and productivity of its prime resource (the academic staff), about the nature and efficiency of its teaching methods, about the structure and relevance of curricula and so on, yet administrators feel reluctant to enter those areas.

Another element on the negative side of the balance sheet has been the failure of administrators to either see or plan ahead. The quality of the talent recruited into university administration must have been considerably above the average for all professional occupations. Should such an amount of talent have been attracted into university administration? If so, should not more care have been taken to either increase the low ceilings of responsibility and reward compared with the professions and industry to ensure that the individuals would obtain credentials which

gave them external transferability. In practice, the history of the development of the occupation in the 1960s proved to be too strong for its leading members and its younger radicals to take steps in the 1970s either to improve its status or to provide for external transferability. The training and qualifications received remain unique to the world of universities and the majority of administrators remain in favour of the rewards being what is termed "academically-related" (which in practice meant and means lower average salaries than the academic staff). The result, of over-worked talented administrators becoming underpaid, under-recognized and dissatisfied, was foreseeable, and will become even more plain as the realities of economics and change bear even more strongly on universities in the next decade.

One more negative point has been the relative failure to match the generalist ethic of the national Civil Service, and thereby to enhance internal mobility across specialist boundaries. In a few universities it is possible for people and duties to shift across the boundaries of financial, estates, academic, constitutional, informational, personnel, careers guidance, social, business etc administration as institutional priorities change and in order for the individuals to obtain experience. But that is not the norm in most universities because the internal civil service model has not been adopted in areas outside the academic/secretariat administration mainstream. That situation stems partly from two basic and desirable features of university administration. First, that each university in an independent corporate body with freedom of choice as to how it structures its administration. Second, that each university is the employer of its administrators, and can determine their conditions of service, and can decide whether to recruit administrators from within the ranks of university administrators or from those with backgrounds in academic, public service, industry, the media etc.

It is doubtful if the universities could have expanded so rapidly and smoothly without the new class of service staff, and it is equally doubtful if the disruptions of student militancy and the new world of trade union negotiations without the full-time care of professional administrators. Similarly with facing the newer challenges of marketing and economic restraint.

In terms of value for money the benefits stand out markedly. The work undertaken by staff on lower salaries than academic staff and who perform for 46 weeks a year and 40-plus hours a week; the only real alternative would have been to use more expensive academic staff time given grudgingly by people who would rightly have retained their prime academic loyalties, in terms of time and personal commitment. Trained career administrators have coped better with the intricacies of personnel legislation, the administration of admissions, the application of national definitions and codes, the devising of budgetary systems, the forecasting of student numbers, the management of premises, the launching of university companies, the legal work on appeal cases, the devising of regulations to comply with the demands of public relations and all of the other facets of university administration. I'm often asked by administrators about the paucity of reference to administration and administrators in the Jarratt report. My answer is that the report reflected accurately the state of university administration: it is essential and important but subservient and of low status. The report has rightly been called an "administrators' charter"; no university can implement the proposals in the report without both an increase in the administration and a more responsible and dynamic role for its administrators, with inevitably a higher profile for them within and outside the institution. But why was that not stated explicitly in the report? The answer lies in two further questions.

Would the majority of the committee have endorsed such an explicit recognition? Would such explicit recognition have damaged severely the chances of universities implementing the report?

The development of the administration in the universities since the 1950s, has benefited those institutions and has been broadly along the right lines. However circumstances have now changed and will change further. The nature and style of university administration needs to adjust. Those circumstances are the impacts of the economy and demography which have created economic recession in the universities, increased competition between universities, the need for new marketing strategies and new markets, the essential necessity to convince the public and politicians of the value of investing in the university and so on; the impact of technology in regard to teaching and administration has yet hardly been taken on board outside Open University; the increased pressures for accountability, litigation, fair play etc which will lead to more formalization of internal procedures, greater ability to openly defend decisions and judgements, and so on.

In general those trends mean that the administration will not only be fighting for an increased share of declining institutional resources but its work will become much more intrusive and threatening internally. Its work is going to restrict and control much more of the lives of all members of the university. A primary task, therefore, is for administrators to be more positive in explaining their value.

The barrier between executive and administrative classes must be removed

Adjustments to the internal civil service model are also needed. For example, internal horizontal mobility remains far too low in most universities and the barrier between administrative and executive classes needs to be removed. I also favour breaking the academic-related nature of financial rewards as that relationship has led to the differentials between the inefficient and the efficient administrators being too low, to the inability to pay for some jobs by results, to the lack of rigorous appraisal schemes and to the salaries of administrators in universities falling behind those in equivalent occupations.

A further adjustment is that required to take full advantage of technology. Despite the major introduction of administrative data processing over the past 20 years we are only just at the dawn of the full impact of office technology, and it needs to be planned for. In structural terms its effects will include a reduction in the numbers of administrators (but a rise in the costs of administration) and an increase in inter-institutional consortia (not even the largest university should decide to finance on its own the costs of in-house software). The internal civil service of the future should be more flexible, slimmer, better supported by technology and more geared to inter-institutional cooperation in technical matters; and staffed by personnel whose rewards are more related to performance.

The civil service needs to recognise more clearly that it is the agent of the

council of the university. Most administrators of the pre-1980s generation, despite the provisions of the charters of the institutions to which they were recruited, believed that their job was solely to service the internal academic community — and the senate in particular.

Second, there is the question of the relationship to the vice chancellor or principal. Despite the prevailing image, the charters and statutes of most universities make this an ambiguous relationship. They recognize that the vice chancellor is the chief academic and administrative officer but they also separate the registrar or secretary's role into being responsible directly to the council for certain (mainly secretarial functions) but responsible to the vice chancellor for general administration. Hopefully over the next decade most universities will appoint vice-chancellors who are capable of fulfilling, and determined to fulfil, the "chief executive" role so that the charter ambiguity is removed and it is clear that the internal civil service is fully responsible to the council through the vice chancellor.

Equally, the internal civil service has to adjust to having members of the academic staff within its ranks. We are all familiar with the current interfaces between an administrative secretary to a faculty and an academic assistant dean or an admissions officer and an academic chief selector etc but I am suggesting that many areas of activity might be administered or managed by mixed teams of administrators and academics all of whom will be engaged in resource and organizational terms as being on the administration budget. It makes sense that admissions marketing and recruitment should be managed by such a mixed team, with its members being equal but bringing different skills and competences to bear. It means that administrators will have to get used to working administratively with academic staff, rather than serving them, and that some members of academic staff will have to get used to a few years to administrative styles and conditions of work.

Administrators should increasingly accept responsibility. They cannot simply sit behind their desks and react to others; they are part of management and not just administration. Moreover, administrators will need to exercise competence over broader ranges of skills and with a deeper knowledge of the academic heartland of their university.

These assertions do not require any change to university governance, they require administrators to accept the institutional responsibility for which they are paid (lowly though that might be) and that such responsibility should be exercised under the constitutional authority of the council and the vice-chancellor in partnership with lay and academic colleagues. (It does, however, mean a change of attitude in some universities away from concerns about internal distributions of power and status and towards making full use of the abilities, experience and industry of all members in the strategic management necessary for survival and development.)

The form of university administration we know today is largely the product of the circumstances of the 1960s but the form and the roles in AD 2000 will be similarly shaped over the next five years or so.

The author is registrar and secretary of the University of Sussex.

Geoffrey Lockwood



BOOKS

Morality of sex

Sexual Desire: a philosophical investigation
by Roger Scruton
Weidenfeld & Nicolson, £18.95 and
\$8.95
ISBN 0 297 788779 and 78479 X

Sexual desire, Roger Scruton tells us, is not of instinct or biological impulse, but of intentions. And what do we intend? The embodiment of ourselves in the body of another, the experience of the unity of our body and soul in physical conjunction with the body and soul of another. Our sexuality, on this reading, is not an appetite like hunger. If it were, John would suit our instincts as well as Jim. Mary as well as Elizabeth. It is the singularity of Elizabeth or Jim, the embodiment of their particular being in the lustre of their hair, the grace of their movement, the frankness of their returning gaze which our desire seeks as an arrow seeks its target.

These characteristics of desire—that it is governed by intentions, that it seeks the union of specific persons, that it finds its satisfaction, not in orgasm per se, but rather in a process of mutual embodiment (the word is Sartre's)—all this means that, yes, dogs do it, birds do it, even the bees do it, but none do it like we do it. Scruton argues indeed that other species do not know desire at all. Only humans have managed to transform the biology of sexual attraction into the intentional ritual of desire.

Scruton's aim is to re-connect the theory of sexual desire to the philosophical tradition of inquiry into the nature of human intentionality, personal identity and language, and thus to break the current monopoly hold on the subject of those incautious sociobiologists, sexologists and crude Freudians who eliminate the specificity of human sexuality by describing it in the pseudo-biological terminology of libido, instinct and appetite. He makes a strong case that the late Victorian chimera of a science of sexual desire—which runs from Krafft-Ebbing to Freud, from Kinsey to Masters and Johnson—has actively contributed, not to liberation but to sexual self-alienation in the populace at large. By thinking of sexual desire as a fixed quantum of libido which obscures the intentional paths which guide object choice, Freud obscured the intentionality of sexual desire; he released a dam of pre-existing libido; it is the interplay of our intentions for each other which creates the energy for consummation. Freudian theory blinds us into thinking of libido as an energy source stored up in the human battery, and hence to conceive of the sexual impulse as an amoral appetite directed and damned by the barriers of guilt and shame. On the contrary, Scruton argues "sexual desire is not impeded by morality, but created by it".

The relation between sexual desire

and sexual morality is the core of Scruton's project. His task is explicitly Aristotelian, to explore the extent to which a normative philosophical anthropology of what it would be good for men to desire can guide us in practical moral choice. It is at this point that Scruton fails to make plain whether the moral claims advanced are entailed in his theory of desire or, a much weaker claim, merely a desirable inference.

He does succeed, it seems to me, in rehabilitating the notion of perversion as a moral category, giving us good reasons for understanding why necrophilia, paedophilia or sexual relations with animals violate a proper conception of what sexual relations ought to be: namely relations between persons capable of the specific forms of intentionality and willing described in his theory. His claim that homosexuality, if not a perversion, then at least is understandably regarded as such by heterosexuals seems to me to be on much weaker ground. The argument is that homosexual desire is narcissistic, solipsistic, a failure to embark on the voyage across the gender barrier. Here Aristotelian high-mindedness shades into narrow-mindedness. If homosexual relations meet all the criteria of interpersonal responsibility which he sets out, why should they be regarded with opprobrium simply because they do not take upon themselves the voyage across the divide of gender?

Nor did I find myself convinced that monogamy and marriage follow as entailed moral consequences of Scruton's theory of desire. Even if one follows Scruton's path of complete

metaphysical and physical engagement with another in the moment of sex, what exactly is it that makes it wrong to have this depth of engagement with someone else as well?

In general, Scruton's moral derivations from his theory of desire are convincing where little real controversy exists: I mean who does not think necrophilia is a perversion? It is of very little assistance in the common areas of sexual betrayal: there is nothing in the Scruton argument to help a man or a woman who conscientiously feels that they love two people equally. Where love and duty point in different ways, no amount of Scruton's philosophy will help you. To which he would just reply: No one can help you. If this is true—as it undoubtedly must be—then it seems less clear to me—a non-philosopher—just what the relation is between the descriptive theory of desire and the prescriptive theory of morals.

Yet I am not sure that these disagreements with his moral conclusions matter that much. For the chapters putatively unravelling the intentional logic of desire are so richly argued, so beautifully supported with apt and often moving quotations from the poets, that simply for rescuing the full philosophical dignity of the subject from the hands of the sexologists, we should be grateful for the appearance of this austere, difficult and magisterial book.

Michael Ignatieff

Michael Ignatieff's latest book is "The Needs of Strangers".

Auguste Rodin and "The Thinker", a photograph by Edward Steichen, taken from a new book by Albert E. Elsen, *Rodin's Thinker and the Dilemmas of Modern Public Sculpture* (Yale University Press, £22.00 and \$8.95).

the "Petrine" approach to philosophy of education, writing in a straightforward, commonsensical way as befits the ex-headmistress.

The most interesting of the papers is "Richard Peters: a philosopher in the older style", by R. K. Elliott. Elliott has undoubtedly exercised a wholesome influence on Peters, helping him to move towards a more open and less dogmatic position in his later work. In this brilliant essay he convincingly and sensitively relates the great strengths and weaknesses of Peters's thinking to his personal style and cast of mind. He is revealed as a latter-day Stoic, who distrusted emotion but passionately believed in the power of the "formal intellectual tradition". Peters saw himself as an analytic philosopher; Elliott argues that "this work is most memorable and most stimulating in so far as he philosophizes according to the layman's conception of philosophy", which sees it as a guide to life, and that Peters used the analytic method predominantly "to support positions he had adopted on other grounds".

The editor provides the essential biographical facts in his introduction, and there is also a useful bibliography.

Francis Dunlop

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Idealist lectures

Lectures on the Principles of Political Obligation
by T. H. Green
edited by Paul Harris and John Morrow
Cambridge University Press, £27.50
ISBN 0 521 26035 3 and 27810 4

T. H. Green was the most influential philosopher in Britain from approximately 1870 up to the 1920s. He died at the age of 45 in 1882 with very little published. His major works *The Principles of Political Obligation* and *Lectures on the Principles of Political Obligation* were published after his death, as well as *Notions*. He had been a fellow at Balliol College, Oxford from the 1860s under the somewhat eccentric reign of Benjamin Jowett and in the last four years of his life he was the first Professor of Moral Philosophy at Oxford.

Fashions exist in philosophy as anywhere else. It is only by looking at the force of personality and the novelty through the attention of the young minds that we can really understand how an orthodoxy is engendered. Green in

this sense was like Wittgenstein in the 1940s, his philosophical position being enthusiastically adopted and explored by a generation of philosophers. The school of philosophy which dominated from the 1870s was Idealism. Its emphasis varied between Absolute and Personal Idealism. The key protagonists were F. H. Bradley, Bernard Bosanquet, Sir Henry Jones, Bernard Caird, J. H. Muirhead, William Wallace and Pringle Pattison among many others. Apart from some contemporary devotees many of the works of these philosophers gather dust on library shelves or in second-hand book shops—although interest is slowly reviving.

Green's own work is still subject to considerable debate. He seems to have embodied ideas from Aristotle, Kant, Fichte, Hegel, as well as the Anglicized Idealism of Coleridge and F. D. Maurice. At times J. S. Mill's influence is also recognizable in his political philosophy. Apart from his work in philosophy Green was an active Liberalist in the temperance movement, a participant in the Oxford High School and an active campaigner for the university extension movement. He was also one of the commissioners on Education.

This book is a very welcome addition to the growing body of literature on the British Idealists. It includes an edited reprint of the Longman edition of the *Lectures on the Principles of*

Political Obligation, as well as the crucial lectures "The Principles of Contract" and "On the Different Senses of Freedom". Applied to Will and even Moral Progress of Man; the latter lecture is thoughtfully later in the volume. It is a pity that the editor, with some justification, to include selections from Green's "Four lectures on the English Revolution" and *Prolegomena to Ethics*. The final items incorporated are some previously unpublished undergraduate essays and fragments on moral and political philosophy.

There has been a definite and carefully edited and readily available edition of Green's lectures on obligation without the somewhat dated preface and introduction by Bernard Bosanquet and A. D. Lindsay. The editors provide a concise and helpful introduction to some of the main themes in Green's thought as well as a sizeable body of notes for more detailed reference. They have also done a careful job of comparing their edition with the original manuscripts. Presumably this will now become the major text for scholarly reference to Green as well as a valuable sourcebook for students of political thought.

My major quarrel is the inclusion of the undergraduate essays and fragments. There is certainly some novelty here and they are of interest to Green scholars, but how significant are they for the average reader? All selectivity is problematic, but my own choice would have been for some of Green's more mature and systematic writings. There is a marked absence of any of Green's theological writings—like the sermons "Faith", "The Witness of God" and "The Word is the Light". Alternatively some of his shorter philosophical essays on "Popular Philosophy" or "The Philosophy of Aristotle" would have been appropriate. The "Different Senses of Freedom", "Liberal Legislation" lectures and *Prolegomena* selections are excellent choices, but the "Four Lectures on the English Revolution" needed, in my estimation, a little more detailed explanation in the introduction. Without a fairly clear commentary these four lectures can appear rather strange to the unwary reader as they need to be fitted into Green's somewhat Hegelian view of history.

The important point in the present publication, however, is that it underlines the significance and relevance of Green as a political and moral philosopher. Once one is accustomed to Green's slightly ponderous language he is a thinker who repays intensive study. In many ways his writings form a counterpoint to J. S. Mill, making a refreshing change to the occasional aridity of Benthamism which marks Mill's work.

Andrew Vincent

Dr Vincent is lecturer in politics at University College, Cardiff.

BOOKS

A critic on the wane

Harold Bloom: the rhetoric of romantic vision
by David Fite
University of Massachusetts Press,
£23.75
ISBN 0 87023 484 6

Professor Fite is a brave man. He has undertaken to unravel the theory and practice of a literary critic whose reputation for jargon, obscurity, self-contradiction, rhetorical evasions, and sheer rambling mumbo-jumbo, is unsurpassed.

Shot to notoriety by his brief polemic *The Anxiety of Influence* (1973), Harold Bloom has since exerted, appropriately enough, an anxious influence over the interpretation of Romanticism and modern poetry, although there are signs, as Fite admits, that the vogue for his work may be waning. His latest books have gone relatively unchallenged and unnoticed; the "Yale School", of which he is a prominent member, seems finally to be deconstructing itself. Fite recognizes that "the anxiety of influence" may end up as one of the more perverse phenomena of the "academic decade", consigned to a "museum of gaudy facts" alongside "pet rocks and Jimmy Carter".

But this is hardly central. What matters is Bloom's sustained assault on the orthodoxies of neoclassical modernist criticism, from T. S. Eliot to Brooks, Ransom, and Tate, and his attempt to forge a rhetoric that can put passion, will, and meaning back into our reading of poetry. To this end *The Anxiety of Influence* argues that "all 'young' poetry since Milton has been written under a grim and increasingly oppressive psychology of belatedness which forces poetic sons to wrestle

with the mighty dead of blocking precursors, so as to clear imaginative space for themselves". Every post-Enlightenment poem, in another memorable image, is like Oedipus meeting Laius at the crossroads.

Round this idea—variously drawn from Nietzsche, Freud, Vico, and Hebraic theology—Bloom has woven a bewildering mysticism, which is never quite the same from one book to another: whether this is opportunism, incoherence or a genuine and conscious development of previous positions is not clear. *The Anxiety of Influence* proposes six "revisionary ratios", strategies by which poets "wrestle with the mighty dead"; in a *Map of Misreading* (1975), we are presented instead with three terms derived from the Lurianic Kabbalah, a strain which becomes even more elaborate in *Kabbalah and Criticism* (also 1975); in *Poetry and Repression* (1976) a more familiar Freudianism reasserts itself.

Bloom's earlier work is much more accessible to the non-initiate, and it may well remain his most durable. *The Visionary Company* (1961), for instance, is a remarkable treatment of high Romantic English poetry, which gives Shelley and Blake prominence over Coleridge and Byron; *Yeats* (1970) is a sustained rehabilitation of the Shelleyan elements of the early poetry and the Blakean elements of the later—relationships which are shown, without jargon, to embody the anxiety of influence, the burdens of inheritance, and the struggle to appropriate an original voice.

Bloom has also forcefully re-presented the tradition of American transcendentalist criticism. Emersons as perpetrators of the "primordial lie" of denying his "diminished belatedness" and proclaiming himself as the free and authentic voice of the "orphanic sublime". In the poetry of Whitman, through Wallace Stevens to Ammons and Ashberry, this becomes a source of both strength and further defensive anxieties.

At the core of Fite's book are the theoretical texts mentioned above, and which Bloom finds his mature, or at least distinctive, voice. Fite's unscrupulous calm and often very telling, but one is still left with the feeling that it is simply not possible to elucidate fully an enterprise so full of



James Strachey, a portrait by Duncan Grant (1910) from Frances Spalding's *British Art Since 1900* (Thames and Hudson, £10.50).

"treacherous tautologies" as Bloom's. It is also a pity, I think, that Fite has so little to offer by way of explanation for Bloom's bizarre refusal to engage with the figure of Coleridge, whose poetry "suffers" from the shadow of Milton as conspicuously as that of Shelley and Blake.

Fite does, however, succeed in conveying the measure of the power of Bloom's writing, the way that it keeps poems alive. At its best, for all the hot air and pretension, Bloom's is a poetic Poetics: questioning, suggestive, and haunting in its use of aphorism, incantation, and imagery. In his dramatic restatement of the problem of the autonomous creative imagination, he has magicked up Romantic modes in which to read Romantic and post-Romantic poetry, and offered an alluring alternative to the desiccations of formalism.

Rupert Christiansen

Rupert Christiansen is currently working on a study of Romantic biography.

A chronic mental disarray

The Letters of Robert Burns
volume one: 1780-1789
volume two: 1790-1796
edited by J. De Lancey Ferguson
second edition by G. Ross Roy
Clarendon Press: Oxford University Press, £45.00 per volume
ISBN 0 19 812478 3 and 812321 3

To store the minds of the lower classes with useful knowledge, is certainly of very great consequence, both to them as individuals, and to society at large. Giving them a turn for reading and reflection, is giving them a source of innocent and laudable amusement; and besides, raises them to a more dignified degree in the scale of rationality. This, written to Sir John Sinclair in 1791, is one of the least desirable of Robert Burns's multiple, epistolary voices. The aspiration to be, among other contrary things, a member of the moderate, sententious establishment never quite left him.

The bleak irony of this particular statement, of course, is that few careers bear such witness to the intense personal and creative suffering endured by a man of lowly social origins with an inherent genius for high literary culture. All too often viewed as an exclusively Scottish phenomenon, Burns, like Stephen Duck, Robert Bloomfield and John Clare, became a no-man's-land between his poverty and the false pecuniary promises, sterile poetics and transient approval of his polite "betters".

If Burns did not descend to Clare's level of disintegration, these letters bear vivid witness to a chronic and mounting psychological disarray. As early as 1786 he could write that "even in the hour of social mirth my gaiety is under the hands of the executioner." Towards the end, we sense a man as

much trapped by language as master of it. The earlier rhetorical excesses of a Scotsman playing with English literary language (like that other remarkable Scottish peasant poet Hogg he delighted in "bums" and "flyings") had become the discrete voices of a radically displaced person.

Burns laid much of the blame for this decline at his own door. The letters trace a repetitive path of excess followed by bouts of gloomy guilt. He told his friends that he was "a fool" and "a madman", and bewailed his lack of the virtue of prudence. He was, however, from the first marked out as a focal point for the harsh, mendacious social forces of the age. His early farm life did combine "the cheerless gloom of a hermit, with the unceasing moil of a galley-slave". His type of rented farm both in size and in the marginal quality of its land was a fiscal trap. His literary fame, partly due to his filling a social role of "peasant poet", added him neither proper patron nor commercial return.

Though the purity of his revolutionary aspirations was mixed with ambition and resentment, the failure of French-inspired republicanism did leave him feeling like "a Scorpion trapped under a thumb nail". The figure of the last days, a covert revolutionary who had attempted to send guns to France now decked out in militia uniform, is a peculiarly sad one. As he wrote in 1793:

"I sit altogether Novemberish, a dunn'd mélange of Prefutfulness and melancholy; not enough of the one to rouse me to passion nor of the other to repose me in torpor; my soul floundering & fluttering round her tenement, like a wild Finch caught amid the horrors of winter & newly thrust into a cage."

Re-reading these letters not only demonstrates the extraordinary plasticity of language in Burns's hands, partly derived, but also reveals that key documents to the fraught world of the late 18th century. What an enormous pity it is, then, that this new edition achieves a minimal increase in textual accuracy. What we have in this edition is a combined work with a new appendix giving the names of correspondents in letters in the poet's possession at the time of his death. This was printed in the *Burns Chronicle* of 1933. Compared to his peers, Burns has still had nothing like his due attention. There have, however, been significant achievements in literary criticism and social history: one thinks of Crawford, Dalziel, Strachey, and more recently, West and Simpson. One should surely expect that a scholar re-editing these letters would display an awareness of this both by writing a substantial introduction and creating a form of notation and reference appropriate to it. Professor G. Ross Roy reveals no such capacities. At £45 per volume, Oxford University Press has sadly reasserted one of the oldest Burns traditions: only the man himself did not make a profit out of his work.

Andrew Noble

Dr Noble is senior lecturer in English studies at the University of Strathclyde.

Poetic injustice

Shakespeare's Poetics
by Ekbert Faas
Cambridge University Press, £25.00
ISBN 0 521 30825 9

With only two hundred pages of text, this book offers more than fifty pages of notes and bibliography. Comprehensive enough, one might think, even for a Shakespearean study, but its omissions are significant. Remarkably, for a book which constantly claims originality for Shakespeare's ideas and practice, there is virtually no consideration of his predecessors, Lyly and Marlowe in particular, and no mention at all of those critics who have tried to define and describe what a poet's should be, such as Frye, Todorov, Jakobson, and Culler.

"Shakespeare's Anti-Essentialism" would have been a better title, because this is the real topic. But *poetics* is an attractive word, vague enough to include anything the critic wants. In this case he treats, *inter alia*, Shakespeare's use of the supernatural, silence in the sonnets, ideas about acting, art and nature in the late plays, and contemporary views of Shakespeare as a poet of nature. The whole is vaguely held together by the argument that Shakespeare shared, with Montaigne and Bacon, a scepticism about the prevailing neo-Platonism. His preference was for a kind of radical empiricism, an anti-essentialism which aimed at nothing higher than reproducing the purposeless flux of life. This is another contribution to "the comprehensive soul" view of Shakespeare. In short, as many have said before, he showed "an eclectic versatility in subscribing to whatever ideas best serve his immediate demands".

The few occasions on which Ekbert Faas addresses the poetry rather than the ideas show him to be a naive reader

of it. When the poet in *Timon* says "Our poetry is as a pun, which shows whence 'tis nourish'd: The fire of it burns where 'tis kindled: The first Show not till it be struck: our flame Provokes itself, and like the current flies."

Each bound it chafes. It is confusing to see this described first as an example of form imitating content, the notion of a flowing poetic imagination being conveyed by a syntax which "constantly overwhelms the reader that the effect is 'further enhanced by the repeated middle pause'". Pause after *unwield'd, struck, and itself*, as you must, and what you have are regular iambic lines, not in the least overwhelmed. A chapter on the poetics of silence in the sonnets closes triumphantly on the quotation of Sonnet 85 in full, with no further comment, and no apparent realization that for all of its claims to be the work of a "tragedian, Muse" and "dumb thoughts", the sonnet is a model of articulation. Then comes this attempt to describe syncretistic effects in the lines "Dick the shepherd blows his nail" and "When roasted crabs hiss in the bowl": "we seem both to hear Dick's blowing and to feel the cold in his fingertips . . . we seem to smell, see, and hear the apples jump over the fire all in one instant." We certainly do.

The most disappointing part of the book comes at its very beginning, where the author tries to make out a case for Shakespeare's poetics being opposed in every way to Ben Jonson's. This involves a perverse emphasis upon Jonson's theory rather than his practice, and a perverse reliance upon a view of *Hamlet* which Ekbert Faas put forward in an earlier book, *Tragedy: a Nietzschean reading*, which saw its hero as the rancorous man who infects all around him with his disease. Now a part of this disease turns out to be his stern insistence upon didactic drama, something which Shakespeare himself took care to avoid. In other words *Hamlet* is Ben Jonson's spokesman.

This is silly, and leads to some poor judgements. The marvellous anvil image in the 1623 poem on Shakespeare is dismissed as Jonson's "fitting his fellow-playwright into the Prokustes bed of his own theories". The chief difference between the two dramatists is that "Jonson tries to isolate his auditor's ears as much as possible from their eyes" while Shakespeare's aim is the very opposite. Think of Ulysses as the Queen of the Faeries as the examples of an auditory imagination. And then, remembering that *The Alchemist* opens with the sublime exchange "Believe it, I will . . . Thy worst, I fart at thee", consider this remark: "so there is little to suggest that Shakespeare shared Hamlet's and Ben Jonson's puritanical distrust of any thing spectacular in general and of the bawdy and obscene in particular". So much for country matters.

Gerald Hammond

Dr Hammond is senior lecturer in English literature at the University of Manchester.

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BOOKS

Reality's mysterious roots

The Picture Book of Quantum Mechanics

by Siegmund Brandt and Hans Dieter Dahn
Wiley, £26.50
ISBN 0 471 81776 7

Quantum Mechanics: A Modern Introduction

by Ashok Das and Adrian C. Melissinos
Gordon & Breach, \$65.00 and \$29.50
ISBN 2 88124 053 4 and 052 6

Quantum Physics: Illusion or reality?

by Alastair Rae
Cambridge University Press, £17.50 and £5.50
ISBN 0 521 36023 X and 27802 3

Quantum mechanics lies at the heart of modern physics. It is a core subject for all undergraduates, yet it is notorious for its difficulty. In part, this derives from the highly counter-intuitive rules which the student must learn and in part from the subtle and even startling picture of reality that it demands. Indeed, 60 years after its inception there is still no consensus among professional physicists about what the theory means - if anything. But it works! In fact it works so well that it is the best scientific theory in existence. In its more refined forms (such as the quantum theory of fields) agreement with experiment is accurate to a level of detail unequalled anywhere else in human inquiry. Now, with the rise of the laser and the microprocessor, quantum mechanics is penetrating areas such as engineering which reach into everyday life. Subtle and bizarre it may be, but quantum mechanics is becoming more and more relevant.

So people write books about it. They write two sorts of books. The first sort tells you how quantum mechanics works, what equations to use when, which systems display quantum effects, and so on. These form the stuff of undergraduate lectures. The other sort addresses the deeper problem of what we know and what we do not know about the world and how we can come to know it. As books in the former category are legion, it is gratifying to come across one that offers something completely different. Brandt and Dahn achieve this with their unusual illustrated book.

The major stumbling block in the teaching of quantum mechanics is the lack of visual imagery. There is much talk of particles and waves but few attempts to represent them realistically. Indeed, one comes across only the odd diagram, usually highly schematic, of a wave function for some idealized system. Brandt and Dahn, however, offer an impressive range of accurately plotted wave functions for many of the

standard situations, such as one-dimensional scattering and tunnelling, spherical harmonics, and the harmonic oscillator. It is thrilling to see the waves wobbling about as they surmount obstacles and wrap around familiar potentials.

Sally, books of this sort will be short-lived. They occupy an interregnum between the dry old texts which make heavy demands on physical insight and the forthcoming computer-generated all-colour video material which will leave nothing to the imagination. No static book can match a time-varying computer graphics display for intuitive appeal and student interest. Incidentally, the book is not all pictures. It also sets out the theory - and very nicely, because of the large page format.

In contrast, Das and Melissinos' traditional textbook covers most of the standard material for an undergraduate course, but makes extensive use of bra and ket notation, which might discourage less mathematically-minded students. Das and Melissinos make up for their formal approach by a remarkable economy of presentation, so that the reader is not belaboured with gory proofs. This book would make a perfectly satisfactory course text.

Alastair Rae's book belongs to that other class of text seeking to clarify the conceptual basis of quantum mechanics. It is slim, lively, informal and immensely readable, taking the reader in a straightforward way through wave-particle duality, Heisenberg uncertainty, and interference and polarization experiments. An attractive feature is the easily accessible treatment of Bell's theorem, normally restricted to obscure formal texts, yet suddenly of intense interest because of a test recently carried out by Alain Aspect to probe the very essence of what is odd about quantum physics. That test revealed that either widely-separated elementary particles can conspire using faster-than-light signals

ling; or the common-sense picture of the physical universe existing all the while "out there" in a well-defined state, independent of our observations, is a fiction. Hence, the title of Rae's book.

Rae opts for a strongly anti-mystical stance, castigating those who would put "mind" at the centre of quantum reality. But he also eschews the weird many-universes interpretation, popular with some cosmologists. Refreshingly, he superficially. Rae hints at an unusual approach to solving the problems of the relationship between observer and observed. He treats the macroscopically irreversible nature of all quantum measurements as paramount, something that is actually implicit in the writings of Niels Bohr - the father of quantum theory. Thus, he draws inspiration from Ilya Prigogine's work on non-equilibrium thermodynamics - particularly the distinction between object and process - or to use Prigogine's terminology, between "being" and "becoming". Rae even goes so far as to claim that events which leave no permanent record are irreversible. Really, then, is rooted in very appealing. Unfortunately, its implications are not worked through in the book.

Still, nobody expects one of the most intractable problems of physical science to be tidied up in a book of this sort, and I can wholeheartedly recommend it to anyone puzzled by all that mystical quantum mumbo-jumbo that has become so fashionable of late and who wants a no-nonsense introduction to the mysteries of quantum reality that is as close to earth as the peculiar nature of the subject permits.

Paul Davies

Paul Davies is professor of theoretical physics at the University of Newcastle upon Tyne.

Learned empire

Science Reorganized: scientific societies in the eighteenth century
by James E. McClellan, III
Columbia University Press, \$58.50
ISBN 0 231 05997 3

The rise and proliferation of scientific societies is one of the characteristic features of the period from the mid-17th century to the end of the 18th century. Within a hundred years of the foundation of the pioneering Royal Society of London and the Académie des Sciences in Paris in the 1660s, these had been imitated by scores of comparable groups, spanning Europe from the south, from Lisbon in the west to Göttingen in the east. In addition, outliers were to be found as far afield as Batavia and Lexington, Kentucky. Among such institutions, there was a considerable degree of variety. Most prominent were the academies of Berlin, St Petersburg and Stockholm, which acted as national centres of scientific activity and clearing-houses for scientific data. But there were also local groupings, which are in some

ways more revealing of the Enlightenment's high valuation of science. Societies devoted to natural philosophy either on its own or in conjunction with other related activities proliferated most of all in France, where they were to be found even in quite small towns like Cherbourg or Pau. Indeed, this aspect of 18th-century French culture was the subject of Daniel Roche's seminal study *Le Siècle des Lumières en Provence* (1978).

Roche is not the only classic work in this field: others include Roger Hahn's excellent account of the Parisian Académie des Sciences - *The Anatomy of a Scientific Institution: the Paris Academy of Sciences, 1666-1803* (University of California Press, 1971); a paperback edition will be published later this year. But a synthesis attempting to do justice to the phenomenon of scientific organization in this period as a whole has long been needed. This is what *Science Reorganized*, the sources dealing either with individual institutions or the institutions of particular countries. McClellan uses those sources quite conscientiously to build up an account of the societies during the 18th century.

McClellan offers a broad view of the growth of scientific societies and their vitality, revealing the late 18th century as the greatest period of expansion after an earlier stage of consolidation.

He also attempts a typology of societies and their contexts, although this leaves a number of loose ends - for instance, on the rather ambivalent relations that apparently existed in different places between scientific societies and the universities. For whereas in cities like Bologna or Edinburgh, scientific societies seem to have been formed as adjuncts to the universities, elsewhere - in the Netherlands, for example - universities are here presented as antithetical to the establishment of such groups.

If this first part of the book is mainly synthetic, McClellan shows more evidence of original research in the later chapters, which deal with the way in which the societies interacted with one another, establishing a kind of international scientific network transcending national boundaries. He illustrates how societies provided a system of international communication through the exchange of letters and journals. Indeed, particularly in the mid and late 18th century, a series of cooperative scientific projects were undertaken, the most notable of which were the observation of the transit of Venus (that in 1769 was watched simultaneously in 77 places, mostly through the initiative of different societies) and the collection of data on the weather under the auspices of the Meteorological Society of Mannheim.

More hesitantly, McClellan also in-

cludes how overlapping membership of the societies tended to define an elite of scientists. Moreover, the criteria used in elections also contributed to the demarcation of competent practitioners of science in a manner that can be seen as a symptom of incipient professionalization. McClellan ends with a view of how increasing specialization altered matters in the 19th century.

There are some surprising lacunae in coverage. For instance, concerning the Royal Society of London - one of the most seminal institutions studied - McClellan seems almost wilfully ignorant of recent work on the society's early years and its implications, relying instead on painfully dated secondary works. In addition, the more original chapters sometimes fail to go as deeply into the topics with which they deal as might have been hoped, so that the analysis tends to remain at a general and consequently sometimes bland level. But in giving an accessible and wide-ranging introduction to a significant aspect of the institutionalization of science in western culture, McClellan's workman-like book is sure to be appreciated.

Michael Hunter

Michael Hunter is reader in history at Birkbeck College, London.

good model for real program development.

In the application of microcomputers to science and engineering one of the most important considerations, apart from the overall system and software specification, is the interface to the physical world. It is encouraging to see the emphasis placed on this aspect by Crahan and Martin, with three chapters devoted to fundamental forms of input/output techniques, and to digital and analogue interfacing. The chapter on transducers, sensors and actuators can of course only provide a smattering of commonly used techniques; and the treatment of these, like many in the field, to some extent divorced from the overall system. There is no manifest appreciation of the trend towards "smart sensors", nor of the integration of microcomputers into sensors themselves to enhance performance and ease interfacing at the systems level. On the other hand, chapters eight and nine, on system design and development, show a good appreciation of current trends, the sections on inter-machine communication, standards

and local area networks being especially valuable.

This book should provide a broad appreciation of a fast-moving field. However, although the approach adopted is practical, there is a distinct lack of real examples. Also, the authors' goals are too diffuse: the book attempts to be all things to all people but falls through lack of depth. And the chapters on interfacing are of mixed quality and do little to illustrate the interaction possible between process, sensor, microcomputer and actuator. Despite this, the book should serve as useful course material for non-specialist students on both undergraduate and graduate courses.

M. A. Browne

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A second edition of R. L. Havill and A. K. Walton's *Elements of Electronics for Physical Scientists* has been published by Macmillan at £29.50 and £11.95.



"Superbia", an engraving after Pieter Breughel, which is reproduced in Benjamin Goldberg's *The Mirror and Man* (University Press of Virginia, \$20.00).

BOOKS
Al Capone states

Stalin and the European Communists

by Paolo Spriano
translated by Jon Rothschild
Verso/NLB, £16.95
ISBN 0 86091 103 9

The Soviet Union and Central Europe

in the Post-War Era: a study in precarious security
by Kristian Gerner
Cower, £16.50
ISBN 0 566 00806 8

In a rather superficial way these two books complement each other. They are both concerned with the incubus of Stalinism and the glacially created, Spriano details its historical and psychological connotation, particularly in France and Italy in the period up to 1947. Gerner examines the fraught consequences of the political glaciation of Eastern Europe since that time. In method and message however it is difficult to imagine two more polarized approaches. Spriano is a wary, meticulous historian and an unselfconscious master of his craft. Gerner, by contrast, lays painfully bare his eclectic methodological starting-points and invites us to follow him on his subjective excursion through sources selected to demonstrate a point.

Spriano's book is in every way impressive. It is limpid and uncluttered in narrative conveyed in a nicely understated sardonic style. That it is such a pleasure to read must owe a good deal to the translator Jon Rothschild. Spriano writes with the ease and polish of a man who is thoroughly

at home with his sources having already established himself as the authoritative historian of the Italian Communist Party. And it is his sources, the written press and conference reports, memoirs and party resolutions, that he largely relies upon to tell his sobering tale. Spriano graphically reconstructs the very different contexts in which the European communist parties had their being, striving with one part of their selves to articulate their particularity yet fatally locked into Soviet hegemony through their own consciousness of impotence. They were prisoners of their own self-imposed guilt at having failed to play the role that history had allotted to them. They were the bit-part actors who had ruined the promising production by forgetting their lines and they were never allowed to forget their incompetence. So long as Stalin lived he treated them with the disdain which, deep down, they considered no more than their proper desert.

And yet, as Spriano recounts, there were times and places where the old hope of winning the masses, of genuinely fusing themselves with the national spirit was rekindled, but each time a perverse dialectic reassured itself. Popular esteem was won by, and in its turn demanded, appeals to national specifics, limitations on cringing subalternity and dreams of pride restored in independence. And each time that such a trend asserted itself it did so only for the duration of its utility to larger Soviet policy goals. The Machiavellian cynicism of Stalin's abrupt policy changes - from popular anti-fascist front to Nazi-Soviet Pact, from resistance and great patriotic war to national roads to socialism and back again to the sacred egoism of the Soviet state and its genius leader - all this is familiar enough but no one has chronicled its European impact as meticulously and dispassionately as Spriano.

Gerner's thesis too has been rehearsed many times before. It is that



Italian communists at a meeting in Moscow, 1935

Empire building

Imperialism and After: continuities and discontinuities
edited by Wolfgang J. Mommsen and Jürgen Osterhammel
Allen & Unwin, £19.95
ISBN 0 04 909018 6

David Fieldhouse in a recent article highlighted the almost impossible task confronting the scholar who aspires to be a "complete imperial historian" (not to mention a "complete student of imperialism"), so extensive have imperial studies become. Understanding the contributors to *Imperialism and After* lay no claims to comprehensive coverage, and they are fully aware of the terminological perils which attend their subject. But where Sir Keith Hancock in the 1940s suggested that imperialism had become too emotive a word for scholars to use, Wolfgang Mommsen replies in his preface that historians cannot ignore the term if they wish to participate in the ongoing debate.

Historians predominate in this volume, with most of the contributors coming from British or German universities. There are no spokesmen from the third world upon the need to increase emphasis upon the need to study the "periphery" if imperialism is to be properly understood. Asia (excluding the Middle East) is the region to receive the most attention: Latin America the least. Some chapters are welcome up-to-date surveys of specific issues such as Dieter Brödel's analysis of imperialism in Vietnam and Cambodia and B. R. Tomlinson's study of British multinational corpora-

Soviet-style socialism as imposed upon the countries of Eastern Europe is an alien and basically Stalinist structure of ideas and institutions that can never be reconciled with their native democratic and pluralist traditions. These "Al Capone states" (as Gerner styles them) exist purely on Soviet sufferance. Their legitimacy derives from the evidence the Kremlin reposes in them rather than from that of their people. The central paradox that Gerner pursues is that this Soviet empire, created to guarantee the security of the Soviet Union, suffers an endemic legitimization crisis that is incapable of resolution within the existing relations of Soviet domination and national subordination. The Stalinist command economy of these countries and the equally Stalinist prohibition of the free articulation and aggregation of interests, brings neither economic well-being nor national dignity (the two legitimating compensations that Gerner believes to be potentially available). The consequence is that the state system erected for the strategic protection of the Soviet Union is fragile and fraught with explosive social and political tensions.

There is evidence aplenty, one would have thought, to support such a

case. But at this point Gerner confronts us with the basic problem of history as to what evidence. This is a restless up to the moment mind that will not rest content with the limitations of the sort of evidence that Spriano so adroitly marshals. For someone whose "approach is hermeneutic" and whose "kind of hermeneutics is semiotic", and moreover, whose "hermeneutic approach is structural" the matter of what shall count as evidence and what it signifies is obviously not so simply settled. "Before entering the analysis... it is necessary to state the general epistemological and theoretical background of the study, its methodological principles and the criteria for the choice of source materials." All of which is entirely laudable but does carry a fairly high risk of losing.

Having exerted ourselves to follow our guide through the complex tangle of locating the nature of the evidences that are to signify, we naturally build up expectations that the substantive analysis will be at a comparable level of sophistication and complexity. Alas it is not. The often simplistic historical narrative of succeeding chapters is an odd foil indeed to the agonized self-consciousness of the first. At a more

mundane level there is little attempt made to reconstruct the common political culture that is made to stand in such dramatic contrast to imposed Stalinist norms and practices. We are told that "In Central Europe there were, when communism arrived, age-old traditions of pluralism, compromise and rational decision-making" so conspicuously absent from the Russian and Marxist traditions. There might be a case here, but the evidence as presented hardly compels us to believe that the distinction was quite so black and white. As a comparative account of the postwar misfortunes of Czechoslovakia and Poland the book is sound enough and often illuminating but the awkward case of Hungary, though explored in one chapter, is never convincingly integrated into the general analysis.

In this particular clash of approaches to the telling of history, it must be said that Gerner, in contrast to Spriano, promises more than he is able to deliver.

Neil Harding

Neil Harding is senior lecturer in the department of political theory and government at University College, Swansea.

Almighty dollars

Economic Security and the Origins of the Cold War, 1945-1950

by Robert A. Pollard
Columbia University Press, \$32.50
ISBN 0 231 05830 6

"We are the first empire of the world to establish our empire without legions", wrote the American theologian Reinhold Niebuhr in 1930. "Our legions are dollars." And, he might have added, "our dollars are legion", for by the 30s the USA was the world's principal exporter and its main source of new investment.

This theme of US economic imperialism became the centrepiece of so-called "revisionist" accounts of the cold war. "Orthodox" US apologists and historians presented the United States as simply responding to Russian expansionism, selflessly aiding free peoples under threat. Since the 1960s "revisionist" scholars, by contrast, have tended to "blame" the USA for the bipolar confrontation, arguing that it tried to create an economic order accessible to US goods and capital.

This "open door" interpretation, associated particularly with William Appleman Williams, remains influential, but in recent years a "post-revisionist school" has developed around the work of John Gaddis. Decided by some revisionists as merely an "orthodox retreat", this approach seeks a middle ground, depicting the cold war as the product more of muddle than machiavellism.

Robert Pollard, in this revision of his doctoral dissertation, is a self-confessed post-revisionist. He admits the economic roots of much US foreign policy in the 1940s but argues, with orthodoxy, that self-interest and altruism conjoined - that what was good for General Motors was not only good for America but good for the world. He also emphasizes that this concern for "economic security" pre-dates the cold war and was not the cause but the instrument of "containment".

Pollard seems to use "economic security" in three main ways. Most fundamental, it stands for the idea that peace depends on prosperity, that nations which act as enemies in the marketplace cannot long be friends at the council table". To quote Will Clayton of the State Department in 1945: "This was the apparent lesson of the 1930s, with its aggressive economic nationalism, and US postwar planning identified as fundamental objectives the reduction of trade barriers and the promotion of international commerce. This was the philosophy behind US efforts to create the International Monetary Fund."

But hopes of a new world economic order were soon dashed. European reconstruction proved harder than expected and by 1947 Russia was perceived not as a truculent ally but as a potential foe. However, this did not mean military confrontation, Pollard stresses. Washington feared communists gaining power in western Europe not the Red Army rolling across Germany. The US therefore provided economic aid to help Europe recover and resist the appeal of communism. The Marshall Plan marked the apogee

of economic containment - security by economic means.

"Economic security" also had a domestic dimension. In detail Pollard demonstrates the pre-Keynesian mentality of the Truman Administration and especially of the President himself. Although resorting to increasingly strident anti-communist rhetoric to protect aid programmes through the Republican Congress, Truman refused to rearm. Faced with inflation from 1946 and recession from mid-1949 he kept a tight rein on the defence budget, insisting that the economy could not afford the military's ever-lengthening shopping list. It was only with the Korean War from June 1950 that the Pentagon gained full approval for its policy of military rather than economic containment.

Pollard's arguments are often familiar. Gaddis, Alfred Eckes, John Gimbel and Warner Schilling are among those who have pointed in the same directions. This is also a US-centred book. Pollard makes no mention, for example, of Lord Bullock's work on Bevin or Alan Milward's iconoclastic argument about the limited impact of the Marshall Plan on the economies of Western Europe. Even on the US side we have to remember that economic containment was always implemented under the umbrella of US "air-atomic" supremacy.

Nevertheless, this is a valuable synthesis and development of recent scholarship. There are concise yet penetrating summaries of decisive events such as the Truman Doctrine and the Marshall Plan, and the book extends beyond Europe with helpful chapters on Asia and on raw materials. Pollard has given us a clear, well-researched and sympathetic overview of US foreign economic policy after the Second World War, as America assumed its often hesitant hegemony.

David Reynolds

David Reynolds is director of studies in history at Christ's College, Cambridge.

Micro context

Microcomputers in Engineering and Science

by J. Fyfe Crahan and Graham R. Martin
Addison-Wesley, £13.95
ISBN 0 201 14217 1

The low cost, ready availability, ruggedness and power of modern microcomputers have ensured that the traditional view of "clean room number-crunchers" now describes only a tiny proportion of the applications of these machines. Potentially useful in almost all repetitive tasks from the machine shop to chemical process control, the increase in their sophistication has been a major factor in the development of industrial robots and is implicit in current progress towards robots with tactile and visual sensors. In the analytical laboratory, too, many instruments are now under microcomputer control, with laboratory samplers,

reagent mixers and sequencers all being automated.

The ubiquity of microcomputers means that most further and higher education establishments now offer some sort of course in the topic for all those engaged in science and engineering. Successful development of new processes, plant, instrumentation and control requires cooperation between multidisciplinary teams who should have an appreciation of the potential in such a broad field of endeavor. Thus essential, we need experts with broad horizons capable of seeing links.

The increasing use of the personal computer has also given us a new generation of young, gifted programmers whose talents need to be coupled with the real industrial and scientific world. However, although there is a plethora of books concerned with principles of microprocessors, assembly languages and high-level language programming, few books have sought to put the microcomputer in context for the engineer or scientist. Aimed at students studying any science, engineering or technology course at university or polytechnic, at practising engineers

and even at the computer hobbyist, Crahan and Martin's book attempts to do just that.

A rather unremarkable first chapter provides a general account of integrated circuits, microcomputers and offers useful background for the complete novice. It adds little to the current literature. Chapter two deals with the processing of information through descriptions of Pascal. Though concise, these descriptions do not bring out the contrast between these languages. Interpreted concerning process structure, documentation and integrity, are not dealt with.

Chapter three provides a concise and well-written account of assembly language programming concepts. The microprocessor being made to the 8086 instruction set. Similarities to and differences from other microprocessors are highlighted in a useful comparative section on data handling. Also, the use of high-level language structures as starting points for assembly language procedures provides a

good model for real program development.

In the application of microcomputers to science and engineering one of the most important considerations, apart from the overall system and software specification, is the interface to the physical world. It is encouraging to see the emphasis placed on this aspect by Crahan and Martin, with three chapters devoted to fundamental forms of input/output techniques, and to digital and analogue interfacing. The chapter on transducers, sensors and actuators can of course only provide a smattering of commonly used techniques; and the treatment of these, like many in the field, to some extent divorced from the overall system. There is no manifest appreciation of the trend towards "smart sensors", nor of the integration of microcomputers into sensors themselves to enhance performance and ease interfacing at the systems level. On the other hand, chapters eight and nine, on system design and development, show a good appreciation of current trends, the sections on inter-machine communication, standards

and local area networks being especially valuable.

This book should provide a broad appreciation of a fast-moving field. However, although the approach adopted is practical, there is a distinct lack of real examples. Also, the authors' goals are too diffuse: the book attempts to be all things to all people but falls through lack of depth. And the chapters on interfacing are of mixed quality and do little to illustrate the interaction possible between process, sensor, microcomputer and actuator. Despite this, the book should serve as useful course material for non-specialist students on both undergraduate and graduate courses.

M. A. Browne

M. A. Browne is lecturer in instrumentation at the University of Manchester Institute of Science and Technology.

A second edition of R. L. Havill and A. K. Walton's *Elements of Electronics for Physical Scientists* has been published by Macmillan at £29.50 and £11.95.

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BOOKS

LAW

Legal dogmatics

Walker and Walker: *The English Legal System*, sixth edition
by R. J. Walker
Butterworths, £28.00 and £16.95
ISBN 0 406 67760 3 and 67761 1
Introduction to English Law, eleventh edition
by Philip S. James
Butterworths, £14.50 and £9.95
ISBN 0 406 60501 7 and 60502 5

The conventions underpinning the compilation of the legal textbook are frequently somewhat obscure. Despite the inordinate importance of the text-book, both as a practical source of legal knowledge and also as the only available systematic commentary upon the substantive legal disciplines, the rules governing the genre remain tacit and unwritten. It is in such a fashion that the legal textbook frequently contrives to assume an authoritative or monumental status within legal education. It does so by ignoring the interdisciplinary dimensions of legal studies and by privileging a tradition of dogmatics over that of criticism. In slightly differing degrees, both of the works under review fall into the expository tradition of the modern legal textbook, both seeking to provide pedagogically directed introductions to the doctrine and study of the English legal system.

R. J. Walker's *The English Legal System* is now in its sixth edition and, updated and slightly extended, it is largely unchanged in its character as a major work of legal dogmatics. It

provides a doctrinally agreed and purportedly comprehensive introduction to the sources, structure and bureaucracy of the English legal order. Its major strength lies in its coverage of legal procedure. The new edition contains a useful additional discussion of the rules relevant to the judicial review of administrative decisions, and interestingly annotates the procedural implications in *Council of Civil Service Unions v Minister for the Civil Service*. On the other hand it could plausibly be argued that the work remains trapped within an outmoded and increasingly insupportable model of legal studies conceived exclusively in terms of the study and citation of rules. In this aspect, the work may be viewed as inconsistent with contemporary academic practice, and is further to be criticized for its refusal to contemplate or account for recent developments both in the theoretical and also the empirical study of legal regulation.

In so far as Walker and Walker is intended as something more than an admirably thorough representation of the self-image of the legal administration, it must aspire to scholarship. It is precisely in terms of the claims of scholarship that it is to be hoped that there is a rapidly diminishing number of introductory law courses that are still prepared to limit their method and syllabus to the curriculum tactics espoused by Walker and Walker. It may be easily agreed, for example, that an introduction to the English legal system ought to include both historical and an analytical account of the sources of law together with an outline of the principal administrative institutions and hierarchies. It is somewhat harder to comprehend that an entirely interstitial and dogmatic presentation of these issues is sufficient to comprise a scholarly introduction to its subject-matter.

The historical sources of English law are simply tabulated. No attempt is made to elaborate the conceptual parameters of legal sources nor to explain the doctrinal development of the theory of legal order. The common

law is rather presented as both conceptually and geographically insular while its development is tacitly explained in terms of the unbroken continuity of the rule of law. Similarly, the refusal to countenance other phenomena of social control and other disciplines of interpretation leads to a remarkably narrow account of legal method. In discussing the binding elements of precedent, for example, the reader is simply informed of the largely rhetorical distinctions between *ratio* and *obiter*, between the binding and the persuasive and is led to assume the factual rather than the symbolic quality of their reference.

Dire straits

The Decay of International Law? A reappraisal of the limits of legal imagination in international affairs
by Anthony Cartwright
Manchester University Press, £25.00
ISBN 0 7190 1850 1

Law, Force and Diplomacy at Sea
by Ken Booth
Allen & Unwin, £18.50 and £7.95
ISBN 0 04 34 3410 7 and 34102 6

One of these books is by an international politics don who to some extent believes in international law. The other is by an international law don who doesn't. Each of them has a more or less specialized readership in view (Cartwright, the more so) and what they have to say can be relied on to provoke fruitful though perhaps acrimonious specialized debate. But since much of what they say can be understood and valued in the wider world, a historian with a toehold in both camps may venture to explain, however crudely, what it is; their common concern being the universally intelligible one of promoting order and harmony among states, with an eye especially on the relevance and usefulness of law.

The nature of the body of law they have in view, international law, is the subject of endless argument. No one doubts that as a matter of fact it matters enormously in regulating the relations of states and in the behavior of the people who, whether as individuals or in groups, inhabit them. Not only must the shipowner, the merchant banker and the millionaire divorcee use it. The poorest he and she among us may learn to bless it when mugged in Miami, frauded in Dubai or pronounced a POW by the PLO. But what sort of law, after all, is this which one of its greatest exponents, a century ago, described as lying at the vanishing point of jurisprudence? What quality of law is this, whose content of right and justice is scarcely possible to discern or determine? And what sort of a system of law is it, that knows no sovereign and that can be broken by its subjects whenever they calculate that their interests would be better so served?

Dr Cartwright of Glasgow University devotes his intensely interesting and closely argued book to the investigation of such questions and comes up with answers that will take a lot of learning and hard work to rebut. The practical ad hoc utilities of the working parts of the international legal system, he knows about as well as anyone. But they are not what he is concerned with. He is a legal philosopher, he is a legal self-respect and a high and noble ideal of law. Having moreover also a sacred thirst for truth and a complete, he has become tired of the self-delusions and introversion which, he argues, keep international lawyers from knowing as much about themselves and the limitations of their sciences (if it is a science) as they should.

Lawyers ought to take "reality" as their subject matter, and the realities of international relations are complicated, confused, ever-changing, and pretty rough; at their roughest, as understood by Hobbes (whom he often cites in his softer aspects as in the "anarchical society" of the late Hedley Bull (whom he doesn't).

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more generally. Interestingly though, James' *Introduction to English Law* claims to be a product of the traditional tradition of legal texts, but in its model of classificatory method it is an expository. What it provides, however, is a synoptic catalogue of doctrinal legal wisdom. The last part of the tract, for example, is presented in classical terms of subjective approach and is treated separately from the rest of the work, which latter body of law is reduced to a list of independent nominate torts. It is unlikely that the great institutional writers, a Chaucer or a Trollope, for example, would be content with such changes.

Peter Goodrich

Dr Goodrich is lecturer in law at the University of Newcastle.



A 15th-century court of law: a picture from *The Making of Britain: the middle ages* edited by Lesley M. Smith (Macmillan, £20.00 and £6.95).

Instead of which he finds "an esoteric academic literature" whose image of the world its manufacturers mistake for the real thing while they pull levers and argue cases as required of them by their employers, their naivety and their ideologies.

The mild depression of spirits induced by Dr Cartwright may be temporarily relieved by recourse to Dr Booth of Aberystwyth. His world is emphatically not a fantasy one. It is the world of Admiral Gorskov and Dr Kissinger, of Polaris and pollution, and the usual alphabet soup of ABM, EEZ, SSBN etc. But most of all it is the world of the United Nations Convention on the Law of the Sea. Leaving legal theory out of doors, he sticks to practice, and the practice he writes about is that to be found in those not unperilous straits where meet two major streams of international law, the law of war and the law of the sea.

UNCLOS which after twenty years of preliminary labours became ready for signature in 1982 took the public fancy for many good reasons. It had to do with the division of world resources. From it came the famous phrase, "the common heritage of mankind". It was heavily concerned with environmental pollution and maritime scientific research. It seemed to sort out a variety of ticklish matters that conflict with one another and with riparian states: territorial limits, passage through straits, economic zones and so on. What it did not seem to have had much to do with was the military uses of the sea. But, Dr Booth tells us, those were very much in the minds of the naval power participants and though they hardly figured in the text, they were never far from the surface. Now in this admirably lucid and readable book he offers an expert assess-

ment of how those naval powers (above all of course the USA and the USSR) may be expected to relate to the new realities: the legal ones as reshaped by UNCLOS, along with those of more cultural, economic and political character.

There is no over-estimation of international law here. Like war, he acutely remarks, law is a continuation of politics by other means; and the law of the sea has always been so to a peculiar degree. All that international law at this level offers is benchmarks and guidelines registering the balance of power. The parts of it which the greater powers believe they can bear may be quite distinctly drawn; the parts they are dubious about will have to be left fuzzy, so that the dominant naval powers will be able to probe and push it towards their own advantage, as the USSR does with its submarine and surface vessels in the Black Sea and the Gulf of Sirte.

Nothing here will surprise, though the degree of detail may delight any reader already acquainted with strategic studies. Not much is for anyone's comfort either. The relief offered by Dr Booth soon wears off. The eighties he expects to be "a war period in international affairs... a back to back season." His book is admirably demarcated to forecast their maritime dimension and it may save us avoidable irritation at what beneath plus references to both letter and spirit of UNCLOS, will contain large traces of ignorance, hot air and hypocrisy.

Geoffrey Best

Geoffrey Best is an academic visitor in the international relations department, London School of Economics.

BOOKS

LAW

Mapping changes

The Changing Constitution
edited by Jeffrey Jowell and Dawn Oliver
Clarendon Press: Oxford University Press, £25.00 and £12.95
ISBN 0 19 876176 7 and 876175 9
Law, Legitimacy and the Constitution: essays marking the centenary of Dicey's "Law of the Constitution"
edited by Patrick McAuslan and John F. McEldowney
Sweet & Maxwell, £18.50 and £11.50
ISBN 0 421 33120 8 and 33130 5

A. V. Dicey was Vinerian Professor of English Law at the University of Oxford between 1882 and 1908. In 1885 he published *An Introduction to the Study of the Law of the Constitution*, the unwritten British Constitution of his day. The 1985 centenary of the appearance of this work, a work whose influence has persisted to this day, has provided the occasion for a review of the British Constitution in these two collections of essays.

The content of constitutional law in Britain has always been open-ended. In these two volumes of essays 23 well-known public lawyers and political scientists attempt, among other things, to chart some of the features of the British Constitution in the 1980s. The result is a constitutional law map which has changed as much since Dicey's day as the road network. Institutions and phenomena examined in some detail include parliamentary select committees and the role of the backbencher in the House of Commons, "quangos" and nationalized industries, local government, the police, the Comptroller and Auditor-General, privatisation and inter-party democracy. Other landmarks of the modern Constitution which Dicey would have found unfamiliar, such as tribunals, ombudsmen and public inquiries, are also considered, though in less depth, in some of the essays.

The transformation of the constitutional landscape since the late 19th century has not been matched by the evolution of constitutional law concepts. Until fairly recently public lawyers seemed chiefly interested in the much narrower subject of judicial



A. V. Dicey

control of administration. Dicey would not find too changed the current understanding as set out in some of these essays of the rule of law, of parliamentary sovereignty, or of constitutional conventions, especially that of ministerial responsibility. The constitution of the 1980s which emerges from the pages of the essays is one which lacks a sound basis of constitutional principle and has little cohesion, a point developed by Partington in his essay in McAuslan and McEldowney. The institutions of the constitution have grown up in a haphazard and uncoordinated fashion. One consequence is a lack of accountability and the effective control of state power, twin themes which run through most of the essays and form the subject matter of Birkinshaw's "Decision-making and its Control in the Administrative Process: An Overview" in McAuslan and McEldowney. Another recurring theme is the issue of public participation in government (for example see Marquand's essay on regional devolution in Jowell and Oliver).

What is the cause of this arrested development, or — as McAuslan and McEldowney prefer to see it — this crisis of "legitimacy"? In his contribution to their volume Prosser suggests that it is because the state still functions through the 19th-century structures so brilliantly described by Dicey. These accord ultimate power to a Parliament which cannot effectively restrain the executive or oversee the running of a welfare state. The reasons for Parliament's ineffectiveness are many, these discussed in the essays include the strengthening of party discipline in the House of Commons to a point where Burke's "Independent

Member" is virtually extinct, the expansion and diversification of state power, the discrepancy between the proportion of votes obtained in the country and the proportion of seats won in the House of Commons and the absence of any constitutional guarantees of civil and political rights. Though it is clear that there is a problem it is not clear where the solution lies. What the essays show is that the constitution needs further study — not from a narrow legal perspective, but, as many of the essays in these two collections attempt, from one which embraces all perspectives: social, political, legal and economic.

The McAuslan and McEldowney volume is intended preeminently as a book for students. Students will find the book edited by Jowell and Oliver equally useful and in some ways superior. *The Changing Constitution* is certainly better value for money. Also, each essay in Jowell and Oliver begins with a helpful summary of its contents and there is no blatant political bias. Unfortunately the thematic introductory essay by McAuslan and McEldowney in *Law, Legitimacy and the Constitution* reads more like a party political tract than a work of academic scholarship. However, this is not true of the whole of the book which, very appropriately, celebrates the Dicey centenary of publication with a review of *An Introduction to the Study of the Law of the Constitution* by McEldowney.

Rosemary Pattenden
Dr Pattenden is lecturer in law at the University of East Anglia.

Tales of tribunals

Dismissal: a study of unfair dismissal and the industrial tribunal system
by Linda Dickens, Michael Jones, Brian Weekes and Morna Hart
Blackwell, £25.00
ISBN 0 631 13925 7

There is no doubt that although the industrial tribunal is a recent phenomenon having been created by the Industrial Training Act 1964, it is undoubtedly the established agency for adjudicating upon employee grievances. Governments of all political persuasions have been happy to see the jurisdiction of these tribunals increased and extended. A recent manifestation of this was the Conservative Government's decision to allow cases of unreasonable exclusion or expulsion from a trade union to be heard by an industrial tribunal. The most substantial part of its caseload, however, concerns its jurisdiction over unfair dismissal complaints. As Dickens *et al* point out, unfair dismissal applications constituted 72.9 per cent of tribunal workload in England and Wales and 78 per cent in Scotland in 1983. Yet, as far as I know there has been no detailed and sustained account of this highly significant aspect of tribunal work.

This book is a product of research funded by the Leverhulme Trust, most dated in 1978. Its purpose is twofold. First, to assess "the extent to which the industrial tribunal system provides the accessible, informal, expert adjudication mechanism which was intended"; and, second, to evaluate "whether the

intentions and expectations behind the statutory protection from unfair dismissal have been fulfilled". The authors admit that the book is written from a particular perspective. Much of it attempts to discover how the position of the individual dismissed worker has been improved through the existence of unfair dismissal laws. But the study does not completely ignore the position of the employer, and the fact that even accounting for its employee perspective sufficient regard was paid to the interests of employers.

There is no doubt that the book contains a wealth of detail and information. Occasionally, however, one wishes that it might have been possible for the authors to have used more recent statistics. The research material is well synthesized and explained and each chapter ends with a useful summary of the authors' major conclusions. Some of these are predictable. Thus nobody can be surprised by the conclusion that "the typical tribunal applicant is a male, manual worker, not in membership of a union, who has been dismissed after relatively short service by a small employer in the private sector". Other conclusions point up what the authors regard as inadequacies of the present system, for example the exceedingly few cases where the final outcome is re-employment, and the difficulties the unemployed applicant may experience in pursuing his case.

This latter point stems from the authors' view that the single most significant shortcoming in the whole system is its tendency towards legalism. The authors show particular concern that although the tribunal members are supposed to be equals the legally qualified chairperson can exercise considerable influence over its lay members, that an appeal lies, ultimately, to judges sitting in the appeal courts

who have insufficient grasp of industrial realities, and that the test the tribunals apply to assess the reasonableness of the employer's conduct "further reduces the applicant's chances of succeeding". Dickens *et al* believe that the fact the tribunals cannot substitute their own judgement for that of the employer's but, instead, have to consider whether the employer's actions are within the "range of reasonable responses" goes a long way to explain the poor success rate of applicants at the hearing stage — only 30.7 per cent of applications were upheld in 1982.

These conclusions lead the authors to argue, in perhaps the most controversial part of the book, that the industrial tribunal system should be scrapped and replaced by a system based on arbitration. It is the authors' views that such an alternative system would dispel the handicaps that unrepresented parties presently experience, would increase significantly the chances that the applicant might be re-employed and, of course, would keep the courts out. These are interesting arguments but how successful they will be in a climate of opinion which the authors admit has been to cut back the opportunities a worker has to claim against unfair dismissal is a matter of opinion. It may also be naive to believe that such a system would prevent judicial interference. On the other hand, this book is undoubtedly a well-documented and thought-provoking account of the operation of British unfair dismissal laws. Even if one disagrees with its conclusions, it is still well worth reading.

Kenneth Miller

Kenneth Miller is lecturer in law at the University of Strathclyde.

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BOOKS

LAWS

In quest of inquests

Coroners' Inquiries: a guide in law and practice
by J. K. D. Burton, D. R. Chambers and P. S. Gill
Kluwer Law, £32.00
ISBN 0 903 993 74 4

The law relating to coroners is currently receiving an unusual amount of attention. The scholarly *Jervis on Coroners* is soon to go into a new edition; Thurston's *Coroner's Inquiries* has already been done so, in a much expanded form; reform of the system of coroners courts is becoming topical again. *Coroners' Inquiries* is designed to fill a need left in the growing literature, for a relatively non-technical introduction for non-lawyers and non-specialists. Yet the book is a curious mixture. Over half the book is pure, undigested legal material: the Coroners Rules 1984, statutes and notes of cases. Little

of this will make sense to the non-specialist - the case notes especially are elliptical and obscure. The book's strong point is its text, 122 pages of tolerably clear writing which should enable the non-specialist to make some sense of the area.

The book studiously avoids controversy. For example, the authors go minutely through the implications of the *Helen Smith* decision, requiring inquests on all bodies brought in from abroad, no matter how obvious the cause of death, but never for a moment do they suggest that the law needs reform. And except for the blunt note on page 45 that "controversial inquests" there is no reference to the increasing numbers of cases where a political element has entered into the arguments at the inquest, often leading to outspoken criticism both of and by the coroners. Presumably the authors have opinions on these topics, but their readers never get to hear them. The book is meant as a practical one, and the authors plainly do not think that they can be controversial and practical at the same time.

How well they have succeeded in producing a practical work rather depends on which class of readers they have in mind. Paradoxically, for a work aimed at non-specialists, those who will benefit from it the most will be coroners themselves. Written by three coroners - respectively the secretary, vice president and an ex-

president of the Coroners Society - and intended to replace the society's old *Recommendations on Procedure*, it contains much that will help a fledgling coroner, particularly their suggestions on handling major disasters and their brief summary of the law of treasure trove. But the authors are not trying to be all-inclusive; at various points the book resembles nothing so much as a list of "1000 things we wish we'd known when we started as coroners". Those seeking a comprehensive treatment must look elsewhere.

For the practising lawyer, the book is a valuable one. For those unlikely to be put off by a mass of technicality, and fully capable of referring to larger works on points of detail, *Coroners' Inquiries* is a useful blend of material on how a smoothly-run inquest should proceed. It should also be of use to those who have some contact with coroners courts but are not trained as lawyers - the police, the press, forensic pathologists.

The people who will know the least about the workings of the inquest are, of course, the family of the deceased. If they wish to take an active interest in the inquest, will they be helped by this book? On this point the book is at its weakest. It is not that it is overly technical; on the contrary, it would be hard to do much better with the material the authors have had to work with. Nor can it be said that it ignores the position of the family. Nevertheless the book is written from the

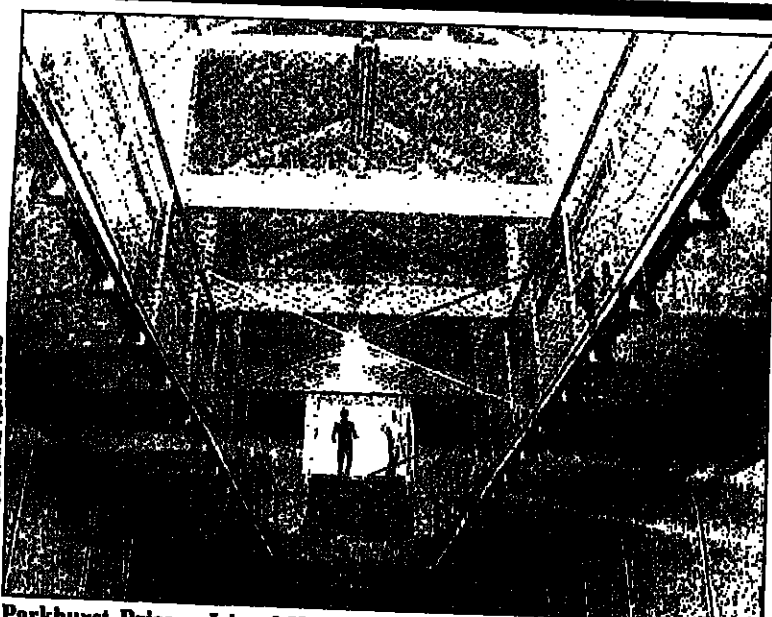
perspective of coroners, and sizes the difficulties they face, rather than the difficulties of others. It is a "highly emotional" book, and others anxious to propose radical changes in the law of inquests will find it a little unhelpful. But it is a book which should be read by all who are involved in the inquest process.

Most regrettable is the book's treatment of legal aid. At several points, authors assert (correctly) that to provide representation before a coroner is not indexed under "legal aid". But the book is a useful blend of material on how a smoothly-run inquest should proceed. It should also be of use to those who have some contact with coroners courts but are not trained as lawyers - the police, the press, forensic pathologists.

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Parkhurst Prison, Isle of Wight

Despite these risks the authors give the idea of selective incapacitation a qualified endorsement. They believe that it may reduce crime, allay fears of victims and the general public. Their endorsement is qualified because the policy is dependent upon the spirit in which it is introduced, the concrete ways in which it is operationalized, and the provisions set down for gathering additional information to resolve uncertainties. They make far-reaching proposals to establish effective record-keeping systems and examine the workings of police, prosecutors and judges.

Although the authors have made out a case for a policy of selective incapacitation and put forward justifications for punishing some offenders more severely than others, this is not the result of a complete analysis of the arguments or of new empirical data, a compelling character. Rather it is because they have actually set out to make a case and provide justifications and they have done so on the basis of existing information unassisted by any research of their own. They have not, or not successfully, addressed a number of central problems with the policy of selective incapacitation.

Those who advocate selective incapacitation often fall prey to concerns which are based upon restricted and socially-biased classes of harms. The authors do not escape this criticism. After discussion of the weaknesses of predictive methods they conclude that an operational definition of dangerousness should focus upon individuals with two convictions for violent offences in three years of street (non-prison) time and two additional additional convictions for serious property crime. One problem with this is that it excludes without argument classes of offenders, such as employers and manufacturers, and classes of conduct, such as tax fraud, from consideration as "dangerous". Moreover there is a distinct bias as

between socially harmful consequences: drunken and reckless drivers, for example, are not considered dangerous although they may be to themselves. The use of charges introduced in a highly controversial element that needs a justification that it does not receive here.

The definition advanced demonstrates another core weakness of selective incapacitation: its inability to specify or identify with accuracy the sub-population of dangerous offenders which is said to exist. The authors say that their definition may seem "too stringent to some and too inclusive to others" but its weakness is that it is wholly uncertain. What, for example, constitutes a violent offence? A tech-

Michael McConville

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BOOKS

LAWS

Deeds and needs

Taking Juvenile Justice Seriously
by Ruth M. Adler
Scottish Academic Press, £16.00
ISBN 0 7073 0466 0

A coherent philosophy towards children who break the law is probably the last thing we have been led to expect from government and court policies towards juvenile justice. They muddle along much as they have muddled along for over a century, see-sawing between the dual objectives of meeting children's needs and punishing wrongdoers - objectives which, we are continually assured, are complementary and not in any way contradictory.

In recent years people have written in strident terms about "justice for children", "the child's best interests", children's rights and even "the child's right to punishment". While English juvenile courts fill up with solicitors and barristers all eagerly defending their clients' interests in the ritual debate over fault and punishment, over the border in Scotland, parents and children together with their social workers sit round a table to discuss problems and progress with concerned members of juvenile panels. The first system, we are told, is called "justice" and the second, "welfare". Yet it is difficult to find anything very just about putting naughty youngsters on trial before a bench of middle-class (and then telling them to keep quiet while police, lawyers, and social workers get on with the job of explaining to the magistrates what they did and what should now be done to them. Nor can sending children away far from their

families to residential institutions deep in the Scottish countryside in order to "protect the community" reasonably be regarded as promoting the child's welfare.

Ruth Adler's book is refreshing in that it cuts through much of the rhetorical padding which surrounds juvenile justice. She asks tough questions about the real meaning of the terms "children's rights" and "children's interests" and their implications for policy and decision makers who are serious about translating these terms into practice. The result is a thoughtful and thought-provoking analysis, which not only exposes the hypocrisy of much of the present discourse on both sides of the border concerning children's needs and how to meet them, but which also points the way towards radical changes in legal and institutional responses to the real meaning of the terms "children's rights" and "children's interests".

Although some of the theoretical discussion in the early chapters betrays its origins as a PhD thesis and is likely to be heavy-going for anyone who is not a devotee of jurisprudential theory, it is this attempt to find a firm theoretical base which enables Ruth Adler to provide insight and clarity in her subsequent examination of the haphazard way in which decisions concerning children are made. Take, for example, the widespread notion that courts are somehow failing in their duty if they decide not to punish children who commit offences. Adler points out that, unlike adult offenders, many children will already have been punished by their parents long before any judicial hearing. "It is surely not asking too much of officials," she comments "to explain in the relevant circumstances that no further action will be taken because the only action deemed appropriate (mainly punishment) has already been taken." She is equally critical of the current view in the Department of Health and Social Security and elsewhere that family courts, when they arrive, should deal with non-criminal referrals, while all children accused of crimes should be consigned to the essentially punitive juvenile court. As she explains, "Once it is recognized that some children may

be in need of care, it seems absurd that at least a number of these may come to the attention of the authorities through offending." She gives the example of a 10-year-old child abandoned by its parents who would be referred to a family court, while the same child, arrested for breaking school windows would be sent to the juvenile court and then, when the home circumstances had been revealed, perhaps transferred to the family court.

Ruth Adler's solution is for the great majority of youngsters who break the law to be dealt with by applying the ideals of welfare within a clear legal framework. The concentration on children's needs and interests should exclude, except so far as it is strictly relevant to these issues, any consideration of the child's deeds. In those few cases where punishment is thought to be the appropriate response, it should be stated quite openly from the outset that different criteria apply. A combination of openness and explicitness in the factual and value bases of decisions will, according to Adler, overcome problems of arbitrariness and secrecy which in the past have drawn so much critical fire in the direction of welfare. It is here and not in any return to legalism that she foresees the possibility of achieving justice for children.

Her own experiences in sitting as a member of juvenile panels adds considerable weight to her arguments. Clearly, she is swimming against the tide, both in terms of the present Government's "Get tough with young offenders" policy and in terms of the pragmatism and anti-intellectualism which pervades Westminster and Whitehall. Yet anyone who has the courage to stand up against the barbarism and hypocrisy that characterize much of juvenile justice in Great Britain and to attack the philistines with reasoned arguments, deserves to be widely read.

Michael King

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Whose freedom?

Freedom of Speech
by Eric Barendt
Clarendon Press: Oxford University Press, £35.00
ISBN 0 19 825381 8

Writings on the subject of freedom of speech in this country have traditionally fallen into one of two categories. Either they have been theoretical accounts of the principle itself (the most notable example, of course, being Mill's *Essay on Liberty*) or they have been expositions of particular areas of English law where freedom of speech considerations are, or ought to be, prominent (obscenity, blasphemy, meetings, processions). Hitherto there has been little attempt to examine these two aspects of the subject in parallel. Nor, more surprisingly, have academics sought to derive principles of freedom of expression from the several areas of English law.

Mr Barendt's monograph on the English law relating to freedom of speech encompasses not only the standard fare of civil liberties courses but also topics traditionally found much further afield, in tort textbooks (libel and slander) and consumer manuals (trade descriptions legislation). This material, once gathered together, is reassessed in the light of general principle. To this end several overriding themes are deployed as tools of analysis. To what extent does the law protect free expression of opinion in contrast to the dissemination of fact? Is special protection accorded to "political speech" (however that is defined)? Can one intelligibly distinguish between speech which asserts a proposition and mere insult, or between pure speech and speech plus an element of conduct (for example, the wearing of political uniforms or, as in America in the 1960s, the burning of draft-cards by way of protest against the Vietnam War)? How far does English law impose prior restraints on speech - to Americans an especially odious device - as opposed to punishing the speaker after the event? At a more abstract level, is freedom of speech simply a liberty to speak



The destruction of draft cards during the Vietnam war: free expression?

unrestrained by law, or does it additionally entail a right of access to the media? Whose interests, anyway, are really protected where free speech exists - the speaker's (as, perhaps, with artistic expression), the audience's (as with the publication of factual data), or the general public's? Why, in any case, is freedom of speech so important as an aid to the discovery of the truth; as a lubricant to the democratic process; or as part of a general claim to liberty?

The book follows the three-way comparative method - English law, United States law, and European Convention on Human Rights - which is now standard in the more academic human rights texts. The United States shares this country's common law tradition, with the added dimension of judicial review in the light of entrenched human rights guarantees. Prominent in this context is the First Amendment:

Congress shall make no law respecting an establishment of religion, or prohibiting the free exercise thereof, or abridging the freedom of speech, or of the press; or of the right of the people peaceably to assemble, and to petition the Government for a redress of grievances.

The comparison with the European Convention is part academic (it contains a substantial element of the civil law approach) and part pragmatic (it provides an effective mechanism for the scrutiny of the failings of British law). To these is added a further point of comparison: Article 5 of the Basic

How jurists think

Lloyd's Introduction to Jurisprudence, fifth edition
by Lord Lloyd of Hampstead and M. D. A. Freeman
Stevens, £24.00
ISBN 0 420 47160 X and 47170 7

The compiler of a student book of materials on jurisprudence faces formidable problems. Here is a subject on which there is, and can be, no definitive agreement as to its scope. Furthermore, it is in many cases unlikely to be the major interest of students, who will approach it with some fear and on occasion with outright antagonism.

Now, about the first of these problems, given the financial exigencies of modern-day publishing, there is little that can be done. Courses in jurisprudence as part of English law degrees vary greatly. In order to obtain a reasonable share of the available market any book has perforce to spread its net fairly widely.

With regard to the second of these problems, more can perhaps be achieved. What is essential is for the writer to do two things straight from the start: to capture the students' interest, and to lead them gently into the whole framework of jurisprudential thought by introducing them to the ways in which jurists think and the terminology which they use. It is this, distinctively philosophical mode of thought which forms such a barrier to understanding to the novice. What is needed is a straightforward account of what jurists are up to and why it is important. Over-simplification is almost a virtue at this stage.

The way to capture students' interest is to show them how the theoretical questions which jurists investigate, underpin and influence practical solutions to problems in the law. Questions of criminal responsibility and punishment can be tapped to advantage here. Kenny's *Free Will and Responsibility* is an excellent illustration of how legal and philosophical

issues of some complexity can be brought within the range of the non-specialist (and with no loss of rigour). Fuller's *Spelling out Explorers* is also a ready-made overview of major issues in legal philosophy (Lloyd does include an extract from this, but it is left undeveloped in the text).

The present work, now in its fifth edition, starts with a dense and somewhat abstract chapter on the nature of jurisprudence. An opportunity is surely lost here. How much more stimulating the book would have been if a challenging issue were raised immediately and the student asked to react to it. For instance, do we have a moral obligation to obey the law? Or is the fact that certain conduct is immoral sufficient to justify making that conduct punishable by law?

Of course, students will flounder initially, will put forward arguments which are both crude and inconsistent with one another. But, with a little prompting they will see the importance of these issues and their significance in the practical application of the law. They will have learnt something about jurisprudence and will have done some for themselves. Only later, if at all, need they ponder the interminable arguments about the essential nature of jurisprudence.

Much of the book consists of an examination of the traditional schools of legal theory. The text is well written, the extracts informative. However, this division of the chapters only fosters the compartmentalized approach to this subject, which has been so heavily criticized in the past. Despite the problems indicated above, fewer topics should be examined. What is important is to establish the fundamentals in a lively and interesting way. If this is done, good students will be encouraged to look further for themselves.

Of course, all of this and more has been said many times before, notably by Professor Hart. Very little changes in English jurisprudence, or so it seems.

John Beaumont

John Beaumont is senior lecturer in law at Leeds Polytechnic.

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OF TECHNOLOGY, ABERDEEN
GRAY'S SCHOOL OF ART

LECTURER

to teach Drawing and Painting. Applicants should be practising artists of distinction with a sound knowledge of drawing and painting. Expertise in other disciplines such as printmaking, video production, film making or computer graphics could be an advantage.

Salary scale (under review): £9321 - £14718 per annum. Assistance with removal expenses.

Further details from: The Personnel Department, Robert Gordon's Institute of Technology, Schoolhill, ABERDEEN, AB9 1FR. Tel. (0224) 633611 Ext. 249.

Closing date for receipt of applications 23rd May, 1986. (74807)

KINGSTON POLYTECHNIC

FACULTY OF
ENGINEERING AND
COMPUTING
School of Computing
Principal Lecturer in
Computing
Lecturer II/Senior
Lecturer in Computing

Applications are invited for the above posts which have arisen in part through the award of £1.2M to the Faculty under the Government's Engineering and Technology Programme, including funding for an expansion of the BSc (Hons) Computer Science degree course. Applicants must be able to provide clear evidence of their ability to contribute to computing education, technology, and to the research/consultancy activities of the School of Computing.

Expertise in any of the specialist areas of computing would be acceptable but applicants who were able to contribute to the School's teaching and research activities in such areas as software engineering, data communications, artificial intelligence, systems analysis and design, image processing and graphics would be particularly welcome.

Salary range: PL £14,991 to £19,297
LII/SL £8,754 to £15,723 including London Allowance

Application forms and further details from the Personnel Office, Kingston Polytechnic, Penryn Road, Kingston upon Thames, KT1 2EE. Tel: 01-549 1366 ext 505. Closing date: 4 May 1986 (74808)

Plymouth Business School LECTURER II IN MANPOWER STUDIES

Salary: £8,076 - £12,945 (normally with further advancement to £16,045). Applicants should have appropriate academic qualifications and industrial or commercial experience. They should be able to contribute to both undergraduate and postgraduate/post-experience levels in the areas of industrial relations and personnel management. An interest in computer applications to human resource management would be desirable. Application forms (to be returned by Friday 2 May 1986) and further details may be obtained from the Personnel Officer, Plymouth Polytechnic, Drake Circus, Plymouth, PL4 8AA. Telephone: (0752) 264830. (74809)

**Plymouth
Polytechnic**
Drake Circus, Plymouth
Devon PL4 8AA

Lecturer II/Senior Lecturer in Statistics

FACULTY OF SCIENCE

Applications are invited for the post of LECTURER/ SENIOR LECTURER in Statistics in the School of Mathematics. The School is responsible for teaching Mathematics and Statistics throughout the Faculties of Science and Engineering.

Applications from people with strong interests in Statistical Modelling or Applied Statistics will be particularly welcome as the successful applicant will be required to make a substantial contribution to the development of courses in these areas.

Salary range LII/SL: £8,754 - £15,723 including London Allowance.

Applications forms and further details may be obtained from the Personnel Office, Kingston Polytechnic, Penryn Road, Kingston upon Thames Tel 01-549 1366 ext 505. Closing date: 9 May 1986 (74873)

**KINGSTON
POLYTECHNIC**

Flood Hazard Research Centre

Two Research Posts
Three-year appointments contributing to a major research project on the national significance of investment in coast protection and sea defence. The project is funded by the Ministry of Agriculture, Fisheries and Food. Both posts involve work on inter-related projects.

Research Fellow

£8,754 - £13,623 pa inc.

A research economist/social scientist is required.

Research Assistant

£6,219 - £8,355 pa inc.

A survey research specialist/social scientist is required to design and supervise social surveys. For an informal discussion about these posts, telephone Colin Green, Research Manager, on 01-804 8131 ext. 408. Write enclosing s.a.e. (min. 9in x 4in) and quoting ref A7258 for further details and an application form. Personnel Office, Middlesex Polytechnic, 114 Chase Side, London N14 5PN. Closing date 21 April. (74810)

Middlesex Polytechnic

Manchester
Polytechnic
Faculty of Art and Design
School of Theatre

Lecturer II In Physical Geography

Salary: £8,076 - £12,945 (normally with further advancement to £16,045)

Expertise in Quantitative Methods required.

Application forms - to be returned by Friday 25th April 1986 - and further details are available from the Personnel Department, Plymouth Polytechnic, Drake Circus, Plymouth PL4 8AA. Tel: (0752) 264830. (74811)

**Plymouth
Polytechnic**
Drake Circus, Plymouth, Devon PL4 8AA

North Staffordshire Polytechnic

Department of History of Art
Complementary Studies
Senior Lecturer/
Lecturer in
Design History

Senior Lecturer £11,958 - £14,045 (incl. L.A.)
Lecturer II £8,076 - £12,945 (incl. L.A.)
The successful applicant will be expected to teach on the B.A. (Hons) Art Degree, as well as contribute to the courses for the B.A. (Hons) Multi-disciplinary Design Degree.

Application forms and further particulars available from the Personnel Office, North Staffordshire Polytechnic, College Road, Stoke-on-Trent ST4 4DQ. Tel: (0782) 4061. Ext. 511. Closing date for completed applications 30th April 1986. (74812)

Middlesex Polytechnic Microelectronics Centre

RESEARCH
ASSISTANTS/
RESEARCH FELLOWS
IN
MICRO-
ELECTRONICS

£6,570 - £13,983 p.a. inc.

Three opportunities to gain valuable industrial experience with the Microelectronics Centre, one of the country's leading centres for research and teaching in microelectronics. Most of the country's work is funded by the Government and involves high calibre of industrial education.

Salary-on-incentive Tech-nology.

Three-year contract (ref VSLI 027).

An Alvey contract for the study of buried insulator structures formed by high dose implantation of oxygen and nitrogen. The work mainly involves the investigation of silicon-insulator interfaces.

MOS Gate Diagnostics. Three-year contract (ref VSLI 004).

An Alvey contract for the investigation of the properties of a material for MOS preparation, studying the physical and electrical characteristics.

Wafer Scale Integration. Two and a half-year contract (ref ALVI 073).

The centre is involved with design and fabrication aspects of VLSI. This post is concerned with a study of the problems in the production of whole wafer devices.

Good graduate or post-graduate qualifications are required. The level of appointment will be appropriate to qualifications and experience. Opportunities exist for professional leadership responsibilities for those with suitable experience.

Write enclosing s.a.e. (min. 9in x 4in) and quoting ref A7478 for further details and an application form. Personnel Office, Middlesex Polytechnic, 114 Chase Side, London N14 5PN. Closing date 21 April. (54820) H3

North Staffordshire Polytechnic

Careers in
Management
Education
INFORMATION
TECHNOLOGY
FINANCE
OPERATIONS
MANAGEMENT
SENIOR LECTURERS
/LECTURERS II

Salary £8,076 - £15,045

Various roles for persons with recent management experience and/or a qualification in management studies. The successful candidate will be expected to contribute to the development of the department's research and teaching programmes.

For further details apply to the Personnel Office, North Staffordshire Polytechnic, College Road, Stoke-on-Trent ST4 4DQ. Tel: (0782) 4061. Ext. 511. Closing date for completed applications 25th April 1986. (51195) 233

Permanent and
Temporary Posts

Department of Management
Studies/Work Studies/
Regional Management Centre

For further details apply to the Personnel Office, North Staffordshire Polytechnic, College Road, Stoke-on-Trent ST4 4DQ. Tel: (0782) 4061. Ext. 511. Closing date for completed applications 25th April 1986. (51195) 233

Colleges and Departments of Art

DARTINGTON COLLEGE OF ARTS
Department of Music

LECTURER IN MUSIC (LECTURER II).

Applications are invited from suitable qualified candidates to join the 12 F.T. lecturers in this lively music department, with effect from 1 September, 1986. We are looking for a person to contribute to the teaching of our Preparatory and B.A. (Hons) degree courses, and to the general practical activities of the department. Candidates should offer a fresh approach to areas such as analytical and historical studies and technique of composition, and participate positively in a department of wide-ranging and interdisciplinary activities. Keyboard or conducting ability, or expertise in twentieth century music, would be an advantage.

Dartington is an Equal Opportunities Employer

For further details, please send large SAE to: Dartington College of Arts, Totnes, Devon, TQ9 8EL. (74813)

Industry and Commerce

TRAINER
REQUIRED

FOR OUR AWARD WINNING
21 WEEK SOFTWARE
DOCUMENTATION
TECHNICAL AUTHORSHIP
COURSE

Due to the expansion of our training department and some very new and exciting developments, we require a trainer in Derby. He/She should possess intimate knowledge of Computing, particularly in the software area, and have a knowledge of program testing in Basic & Pascal. In-depth knowledge of communications techniques or technical authorship is not necessary. Please send your application with a CV to:

Mr. Gordon Roberts
Easton Limited
Norman House, Heritage Gate
Priargate
Derby DE1 1DD (74814)

Colleges of Further Education

Nene College Northampton

FACULTY OF MATHEMATICS, MANAGEMENT & BUSINESS

Applications are invited for the following posts:

LECTURER 2 IN BANKING & FINANCE

The person appointed should be a member of the Institute of Bankers and have practical banking experience. A degree or/and accountancy qualification would be an advantage, as would an ability to contribute towards accountancy teaching.

LECTURER 2 IN MANAGEMENT STUDIES

The person appointed should be able to offer either Marketing or Personnel Management as a specialism, but also be able to contribute to general management & business teaching. Applicants should have commercial/industrial experience and a degree and/or relevant professional qualification.

Salary scale - Lecturer 2 = £8,076 x 10 increments to £12,945 with possible progression through to Senior Lecturer scale.

PROGRAMME DIRECTOR - MANAGEMENT TRAINING

The person appointed will join a team of trainers concerned with the promotion and provision of short management courses largely for industry and commerce within the Northampton region. Applicants must have industrial/commercial experience together with a successful record in management training.

Salary scale £11,958 x six increments to £15,045.

For further details and application forms send SAE (stating the post(s) in which you are interested) to The Dean, Faculty of Mathematics, Management & Business, Nene College, Moulton Park, Northampton NN2 7AL.

Closing date for applications is two weeks from the appearance of this advertisement. (74805)

HAMPSHIRE

EDUCATION COMMITTEE PORTSMOUTH COLLEGE OF ART, DESIGN AND FURTHER EDUCATION

Vice Principal

Applications are invited for the above post which has become vacant due to retirement.

Application forms and full particulars, which must be returned by Thursday, 24th April 1986 may be obtained from The County Education Officer, The Castle, Winchester, Hants, SO23 8UG or telephone Winchester 544111 Ext: 476 quoting the reference FE/STAFF/MS. (74806)

Colleges and Institutes of Technology

SURREY COUNTY COUNCIL

NORTH EAST SURREY COLLEGE OF TECHNOLOGY (GROUP B)

VICE PRINCIPAL

Salary range £21,618 - £22,633 plus £264 London Fringe Allowance.

Following the appointment of the present Vice-Principal to the post of Principal, applications are invited from suitably qualified and experienced candidates for a successor to this post.

The College provides a broad range of both advanced and non-advanced courses in the fields of Biology, Social Sciences, Business Studies, Construction Studies, Applied Sciences, Management and General Studies. The College has close links with industry, commerce and the professions and has a long association with the Manpower Services Commission.

Further details and application forms available from County Education Officer, (PERM) County Hall, Kingston upon Thames, Surrey KT1 2JL. (BAE please). Closing date 29 April 1986. (74809)

Colleges and Institutes of Higher Education

BEDFORD COLLEGE

of higher education

Applications are invited for the following posts, all available from 1.9.86:

PL COMPUTER MANAGER
PL PRIMARY EDUCATION: to lead the Primary B.Ed. and coordinate the area, establishing close links with schools

PL STUDENT SERVICES
COORDINATOR: to be in charge of counselling, student residence and liaison with the student body

PL ADULT AND CONTINUING EDUCATION

SL RECREATION AND LEISURE STUDIES: to play a developmental role within B.A. Sports Studies

SL PHYSICAL EDUCATION: to provide leadership in P.E. within the B.Ed., and participate in prof. studies teaching

2 L2/SLs INFANT EDUCATION: recent and substantial experience of teaching infants is sought for 2 posts within the Primary B.Ed.

2 L2s ELECTRONICS

L2 PHYSICAL EDUCATION IN FURTHER EDUCATION

L2 OFFICE AND SECRETARIAL SKILLS

L2 BUSINESS STUDIES (Accounting)

L2 or L1 MATHEMATICS

2 L1s ELECTRONICS

Temporary L1 OUTDOOR EDUCATION: to work with B.A. and B.Ed. students for 1 year to replace a member of staff on secondment

Further details and application forms can be obtained from Director's secretary Bedford College of Higher Education, Mander site, Cauldwell Street, Bedford MK42 9AH (tel. Bedford 41511) to whom they should be returned by 28th April 1986.

Bedfordshire is an Equal Opportunities Employer.

LA SAINTE UNION COLLEGE OF HIGHER EDUCATION

Lecturer II/Senior Lecturer in Computing

Required to continue the development of the contribution of micro-computers in primary education. The person appointed will teach on the BEd, PGCE and In-Service Education programmes. The successful candidate will have good academic qualifications in computing and be a qualified teacher.

Lecturer II/Senior Lecturer in Education

Applications are invited from well qualified teachers with recent experience in primary schools, preferably with infant school children. The person appointed will join the team of staff working on BEd, PGCE and In-Service Education programmes.

Lecturer II/Senior Lecturer in Language and Reading

Applications are invited from well qualified teachers with recent experience in primary schools, preferably with infant school children. The person appointed will join the team of staff working on BEd, PGCE and In-Service Education programmes.

All of the above are 3 YEAR FIXED TERM APPOINTMENTS FROM SEPTEMBER 1986 and further details may be obtained from the Principal's Secretary, LBU College of Higher Education, The Avenue, Southampton SO9 6HB. Telephone (0703) 228761.

Closing date for applications 1 May 1986. (74868)

WELSH COLLEGE OF HORTICULTURE, NORTHOP Principal

Applications are invited for the above post which becomes vacant on 1st January, 1987 on the retirement of Mr. C.J. Mitchellmore. Candidates should possess a degree (or equivalent) in horticulture and have had appropriate experience in education and in the horticulture industry.

This is a residential college on an estate of 92 hectares overlooking the estuary of the River Dea. It offers a range of three, two and one year diploma and certificate courses in the major branches of horticulture. There are over 500 students of whom some 180 are full-time.

Salary: Principal's Range Points 7-11 (£18,507 - £20,385)

The Principal's House (rent and rates free) is situated on the estate.

Further details and application forms are obtainable from the Director of Education (Ref. DR/PE) Shire Hall, Mold, Chwyd. CH7 6ND (Telephone (0352) 2121 Ext. 2519). Closing date 30th April 1986.

Shire Hall
MOLD
KEITH EVANS
Director of Education
(1986A)

CLWYD COUNTY COUNCIL

LONDON BOROUGH OF EALING Southall College of Technology Sector Manager for Business Computing and Community Education

Salary: Burnham Head of Department Grade V £18,264 - £20,166 inclusive of London allowance.

Applications are invited for this new post effective from 1 September 1986.

Applicants must be graduates with proven administrative and organising ability in further or higher education. Relevant industrial/commercial experience will be a requirement, but personal commitment and an ability to communicate effectively with college staff and outside agencies, whether industrial/commercial or local community based, will be essential.

Further particulars and application forms obtainable from J. McTeague, BA, Clerk to the Governing Body, Southall College of Technology, Beaconsfield Road, Southall Middx UB8 1DP. Telephone 01-874 3448 extension 201. Closing date 25 April 1986. (74872)

Adult Education

ASSISTANT DIRECTOR/ FIELD CONSULTANT

After eight years, Elspeth Cardy is leaving ALBSU and we are seeking to recruit her successor, to join our small London based team.

Candidates should have substantial experience in adult literacy, numeracy or related basic communication skills work with adults as well as enthusiasm and commitment to the general development of basic education in England and Wales.

ALBSU is the central focus for adult literacy and related basic skills work in England and Wales and is grant aided by the Department of Education and Science and the Welsh Office Education Department. Among its functions, ALBSU sponsors a significant number of development projects, co-ordinates and provides training, produces and publishes materials and offers a consultancy and advisory service to LEAs and voluntary organisations.

ALBSU staff are based in London, although a considerable amount of travelling throughout England and Wales is essential. The commencing salary will be between £17,265 and £18,472 on the National Joint Council Scales plus £1,317 London Weighting Allowance.

Further details and application forms may be obtained from:

The Director, Adult Literacy and Basic Skills Unit, Kingsbourne House, 229/231 High Holborn, London WC1V 7DA. Telephone: 01-405 4017

Closing date for applications is April 30, 1986.

ALBSU

Lecturer/Staff Development Officer

£10,950 - £11,604

This is a joint appointment with the College of St Mark and St John, Dorchester, Plymouth and West Devon Social Service. This new and innovative post offers the opportunity for a graduate with relevant professional qualifications and experience in social work to teach part-time on the certificate in Social Service South West Peninsula Scheme, and also to work on service development within the Social Services Department in its West Area. The capacity to contribute to the College to a CSS standard and to manage a special unit on management will be required with possibilities of contributing to other college courses.

Major changes are planned in the residential and day care services for the elderly and handicapped in West Devon including the introduction of "Community Care Centres". This will challenge existing staff roles and care practices. You will work with individual homes and centres to help staff develop with these changes. For informal discussion please telephone Veronica Day at the College, telephone Plymouth 777188, or Peter Thistlethwaite at Social Services Area HQ on Plymouth 264826.

Application form (SAE please) and further details from Social Services Department, Civic Centre, Royal Parade, Plymouth. Returnable by 25 April 1988.



ESSEX

INSTITUTE OF HIGHER EDUCATION School of Construction Practice LECTURERS GRADE I in Construction

Salary: £8,324 - £12,945 per annum
Duties to commence 1st September 1988

Applications are invited for two posts from suitably qualified persons. The successful applicants will complete the term for the B.T.E.C. Diploma and Certificate Programmes in Building.

Post 1
to teach and develop Building Measurement with an ability to assist with Construction Technology or Building Science.

Post 2
to teach and develop Land Surveying and assist with Building Science or Construction Technology. This post is suited to applicants with experience and qualifications in Civil Engineering.

For further details and application forms for the above posts apply to the Personnel Officer, Essex Institute of Higher Education, Victoria Road South, Chelmsford, Essex, CM1 1LE or telephone 0245 354491. Closing date 2nd May 1988.

(74604)



Mid-Kent College of Higher and Further Education

DEPARTMENT OF MECHANICAL AND PRODUCTION ENGINEERING

Senior Lecturer

A graduate is required to join an enthusiastic team that has established regional status in Computer Aided Engineering and Open Access Learning for Adult Updating and Retraining. Candidates will be required to contribute to normal teaching programmes and become actively involved in new developments.

Salary Scale £11,958-£14,045 (bar) £15,045

Further details and application form available from the Principal, Mid-Kent College of Higher and Further Education, Horsted, Maidstone Road, Chatham, Kent to whom completed applications should be returned by Friday 28th April 1988. (Tel: 0834 41001, Ext. 240).

(74602)

BULSMERSHE COLLEGE OF HIGHER EDUCATION

Applications are invited for three one-year temporary posts from September 1988

LECTURER II/SENIOR LECTURER IN DRAMA

A full-time appointment to teach mainly within the College's primary BEd programme. Strong academic qualifications in Drama, experience of Theatre-in-Education and of teaching Drama in schools are essential.

LECTURER II/SENIOR LECTURER IN FILM (PART-TIME)

A 0.5 appointment to teach mainly within the College's BA programme. Strong academic qualifications in Film are required. Interest in European cinema and in feminist approaches to Film particularly welcome.

LECTURER II/SENIOR LECTURER IN ART (PART-TIME)

A 0.5 appointment to contribute to initial teacher training programmes. Strong academic qualifications in Art and Design and recent teaching experience with Junior children are essential.

Further particulars and application forms may be obtained from:

Acting Deputy Principal
Bulmershe College of Higher Education
Woodlands Avenue
Earley Reading RG6 1HY

Tel: Reading (0734) 683387 Ext 226
Completed forms to be returned by 2 MAY 1988

Berkshire County Council is an equal opportunity employer.

(74641)



the College of Ripon & York St John

Applications are invited for the following post in this Church of England Voluntary College of Higher Education (1,800 men and women).

DEPARTMENT OF DESIGN AND TECHNOLOGY

(Lecturer Grade II/Senior Lecturer scale £8,076 - £15,045)

Applications are invited from well qualified and experienced persons to join this expanding department in the College. Recent secondary school/teacher training experience is required together with a broad view of technological problem solving in the context of Craft, Design and Technology and the ability to organise publicity and recruitment to courses.

Further details and application forms may be obtained from the Principal, College of Ripon and York St John, Lord Mayor's Walk, York YO3 7EX to whom completed forms should be returned to arrive not later than TUESDAY 8th MAY 1988.

(74648)



DERBYSHIRE COLLEGE OF HIGHER EDUCATION

(Faculty of Engineering & Science) 'New Blood' Appointments 2 posts of Lecturer II/Senior Lecturer in Mechanical Engineering

Applications are invited for the above posts from energetic enthusiasts who wish to teach their specialised subject at degree and sub-degree level.

An active research interest and appropriate industrial experience are required.

Salary scales: Lecturer II £8,076-£12,945
Senior Lecturer £11,958-£14,046-£15,045

Application forms and further particulars from Staffing Officer, Derbyshire College of Higher Education, Kedleston Road, Derby DE3 1GB, telephone Derby 47181, extension 8.

(74648)



SOUTH GLAMORGAN COUNTY COUNCIL

SOUTH GLAMORGAN INSTITUTE OF HIGHER EDUCATION (CARDIFF)

HEAD OF DEPARTMENT OF SOCIAL WORK, GRADE 4

POST NO. HOD4/65

Due to the retirement of the present postholder, applications are invited from graduates or equivalent for the above appointment to commence duties on 1 September 1988.

The Department has a variety of courses and potential for further development in post. Previous management experience in education and/or social work is desirable.

SALARY SCALE: HOD4 £14,044 - £17,759

Further particulars and application forms may be obtained from The Personnel Officer, South Glamorgan Institute of Higher Education, Gwynedd Centre, Gwynedd Road, Cardiff CF4 6DZ. Telephone: Cardiff (0222) 531111, Extension 3032. Completed application forms should be returned within fourteen days of the publication of this advertisement.

Applicants are welcomed from suitably qualified people regardless of their sex, marital status, race, religion, colour or disability.

(74652)

ST MARY'S COLLEGE Strawberry Hill, Twickenham

St Mary's is a Roman Catholic college of higher education and offers undergraduate courses leading to two-subject BA, BEd and BSc honours degrees of the University of Surrey, as well as a variety of postgraduate courses. The College has about 1200 students of whom approximately half are registered for BA/BSc degrees and half for the BEd degree.

LECTURER (LI/SL) in MOVEMENT STUDIES

Applications are invited from well-qualified graduates to teach and develop undergraduate and postgraduate courses in one or more of the following areas: Dance, Exercise Physiology, Sociology, Aspects, Historical and Comparative Aspects.

The ability to contribute to practical areas and substantial, non-teaching in schools and/or experience of industry and commerce would be advantageous but lack in these respects should not discourage particularly well-qualified graduates in one or more of the required disciplines.

Appointment from September 1988.

Closing date for receipt of applications: Friday 25 April 1988

Further details from: The Principal
St Mary's College
Strawberry Hill
Twickenham TW1 4SX

(74653)



Roehampton Institute

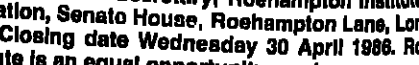
Courses offered by the Institute lead to first and higher degrees of the University of Surrey and to other awards. The Institute seeks to make the following appointment with effect from 1 September 1988.

LECTURESHIP IN RELIGIOUS STUDIES

Applications are invited from persons with a higher degree in Religious Studies or Theology combined with recent experience of teaching Religious Education in primary/secondary schools. Some experience of teacher education and appropriate research interests would be an advantage. Teaching responsibilities will also include courses in the BA/BSc programme of Religious Studies. Salary (LI/SL) £8,076-£15,045 plus London Allowance £1,038 per annum.

For an application form and further particulars please write to the Assistant Secretary, Roehampton Institute of Higher Education, Senate House, Roehampton Lane, London SW15 5PU. Closing date Wednesday 30 April 1988. Roehampton Institute is an equal opportunity employer.

(74654)



DORSET DEPARTMENT OF HIGHER EDUCATION

INSTITUTE OF BUSINESS MANAGEMENT

Applications are sought for the following posts which have arisen from expansion of the Departments work.

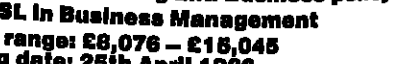
Post No. E.4681
Division of Operations Management
- L1/SL in Operations Management
with an emphasis on quantitative business analysis and IT applications in business.

Post No. E.4682
Division of Marketing and Business policy
- L1/SL in Business Management
Salary range: £8,076 - £15,045
Closing date: 25th April 1988

Starting date: 1st September 1988

Further details and application forms from Staffing Officer, Dorset Institute of Higher Education, Walldown Road, Walldown, Poole, Dorset BH12 5BB

(74655)



BUCKINGHAMSHIRE COLLEGE

School of Art and Design, Furniture and Timber

Head of School: Ian M. Barker BA Cert Ed

2 Posts: Lecturer Grade I Furniture Craft

£6,324 - £11,247

To be appointed from 1st September 1986 to teach students on CG 555/586 Furniture Craft and Woodmachining Courses.

Application forms and further details from: The Deputy Director (Resources) Buckinghamshire College of Higher Education Queen Alexandra Road, High Wycombe, Bucks. (Please enclose s.a.e.)

(74656)

Colleges of Higher Education continued

EALING COLLEGE OF HIGHER EDUCATION

Applications invited for the post of

ASSISTANT DIRECTOR

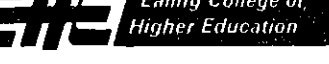
With responsibility for academic staffing, student services and aspects of College liaison.

Salary: Group 8 Vice Principal £23,087 p.a. inclusive (Salary review pending)

Full details from The Personnel Office, Ealing College of Higher Education, St Mary's Road, Ealing, London W5 5RF.

Closing date for applications: 28th April 1988.

(74658)



DERBYSHIRE COLLEGE OF HIGHER EDUCATION

Lecturer II/ Senior Lecturer in Fashion Design

(1 Full-time & 1 Half-time post)

Salary Scales:
Senior Lecturer £11,958-£14,046-£15,045
Lecturer II £8,076-£12,945

Application forms and further particulars for each post from the Staffing Officer, Derbyshire College of Higher Education, Valley Road, Derby DE1 1GB, telephone Derby 47181, extension 8.

(74659)



Canterbury Christ Church College of Higher Education

For September 1988:

TWO POSTS IN PRIMARY EDUCATION

Applicants should have recent experience in Nursery or Primary schools and higher degrees in an area relevant to the primary curriculum. A major curriculum strength is sought as well as the ability to contribute to courses in Child Development and Teaching and Learning. Experience of special educational needs and information technology in the classroom would be an added advantage.

Salary scales: Lecturer II/ Senior Lecturer £7,958 - £12,945

For further details write to: Principal's secretary, Christ Church College, North Road, Canterbury, Kent CT1 1QU to whom applications should be sent by 21 April 1988.

(74660)



West Sussex Institute of Higher Education

Incorporating Bishop Otter College Chichester and Bognor Regis College

Applications are invited from qualified and experienced teachers with recent school experience for posts in-service education of teachers with effect from 1st September 1988. The special area of interest is the 3-5 age range. Art in the Primary School and Mathematics in the Primary or Secondary School. The appointment will be for 3 years in the first instance or in certain circumstances may be permanent.

The salary will be on the Burgham P.E. L.I. scale or S.L. scale (£8,076 - £15,045 per annum) according to experience. The Institute subscribes to a policy of racial equality in its employment.

Further details of the Institute and application forms are obtainable from the Director, West Sussex Institute of Higher Education, Upper Bognor Road, Bognor Regis, Sussex BN24 3JH. Tel: Bognor Regis (0243) 865381, to whom they should be returned by 21 April 1988. (54630) H8

(74661)



Luton College of Higher Education

Park Square Luton LU1 3JU

LECTURER II/ SENIOR LECTURER IN APPLIED PLANT PHYSIOLOGY

The person appointed will be expected to make a major contribution towards the teaching of the B.Sc. (Hons) Applied Plant Physiology and Computing course, particularly in crop physiology and have the ability to contribute in the area of plant pathology.

The successful candidate will be expected to have an established research record and to develop it further after appointment.

The post will be available from 1st September 1988.

Details and Application Form from Assistant Director, Applied Plant Physiology, Luton College of Higher Education, Park Square, Luton LU1 3JU. Tel: (0525) 54111, Ext. 5581, to whom they should be returned by 28th April 1988.

(74662)



Hampshire County Council

Institute of Higher Education
Department of Construction and Surveying

LECTURER IN CONSTRUCTION MANAGEMENT

Applications are invited from suitably qualified candidates who have relevant experience for the above two posts. The persons appointed will be required to teach at advanced level on R.I.C.S. and C.I.O.B. Professional courses and to be closely involved with the development of a part-time C.N.A.A. degree in Surveying.

Applicants should be corporate members of an appropriate professional body. Teaching experience would be an advantage although this is not essential. In addition, for the post in Construction Management, applicants should have the necessary experience within the Construction Industry. For the post in Surveying, preference will be given to persons with experience in either quantity surveying or architectural surveying. Although applicants with experience in both fields will also be given consideration.

Salary Scale L1 £8,076 - £12,945. On the current level of work it is expected that both posts would progress to the Senior Lecturer scale.

Further details and an application form are available from the Personnel Officer, Hampshire County Council, Higher Education, East Terrace, Southampton, Hants, SO9 4WV. Tel: (0703) 293381, Ext. 312.

Closing date: 25 April 1988. (54626)

Research and Studentships

The University of Western Australia Perth

University Research Fellowships (Postdoctoral)

Up to two Research Fellowships will be offered, to be taken up in the latter half of 1988. Appointments will normally be for two years in the first instance. Fellowships may be renewed for a third year, but only in competition with new applications. Fellows are appointed for two years in the first instance and are required to give the University Scheme for Australian Universities (SSAU). The fellowships will be awarded in the following academic disciplines stated below:

Obstetrics & Gynaecology
Control of ovarian function at a cellular level during luteal phase of patients treated by in vitro fertilisation

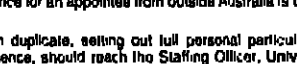
Physics
Atomic Physics
Psychology
Cognitive Psychology: processing consequences of different wiring systems

The Fellowships are intended for younger, accomplished research workers who have held a PhD or equivalent qualification for not more than five years and who by publication and in other ways have demonstrated significant research capability. They are not normally available to immediate PhD graduates of the University of Western Australia.

Commencing salary will be within the range of \$42,473-\$42,880 per annum. The removal allowance for an appointee from outside Australia is currently a maximum of \$44,887.

Applications, in duplicate, setting out full personal particulars, qualifications and relevant experience, should reach the Staffing Officer, University of Western Australia, Nedlands, Western Australia, 6009, by 12th May, 1988. Copies of the principles governing University Research Fellowships are available from the Staffing Officer, or from the Secretary General, Association of Commonwealth Universities (Appa), 36 Gordon Square, London WC1H 0PF. Applicants should arrange for two referees to write to the Staffing Officer before the closing date.

(74663)



University of Bradford

RESEARCH ASSISTANT

Reinforced Reaction Injection Moulding

Applications are invited from Engineering or Physics graduates with good Honours degrees for a three-year Research Assistant post with a progression to Research Fellowships in Reinforced Reaction Injection Moulding (RRIM) polymer processing techniques using ultra-high pressure. The post is concerned with the kinetics of structural relaxation in polymer systems, and will involve developing a new technique for measuring the relaxation time. Candidates should preferably have experience in the use of DSC.

Salary on the scale £7,055 to £9,485 p.a.

Application forms and further particulars are available from the Deputy Secretary, (Ref: RA/RP/007H), University of Bradford, West Yorkshire BD7 1DP. Informal enquiries to Dr P. O. Cooke, School of Mechanical Engineering, Tel: 0547 7841, Ext. 7841.

Opportunity Employer. (74664)



UNIVERSITY OF KENT AT CANTERBURY

Doctoral Programme in Applied Computing (Social Sciences)

Applications are invited for two ESRC-funded postgraduate research studentships for a three-year Doctoral Programme in Applied Computing (Social Sciences), leading to the award of PhD.

Candidates should have some experience in both computing and a social science discipline.

Further information and application forms may be obtained from: The Graduate Office, The Registry, The University, Canterbury, Kent, CT2 7WZ. Please quote reference no. PG/58/71ES

(74665)



University of Aberdeen

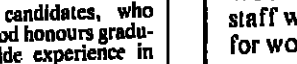
POSTDOCTORAL RESEARCH FELLOW

Applications are invited for the ESRC-funded post, to be held up to a maximum of 2 years and to start on 1st September 1988. The project is concerned with the kinetics of structural relaxation in polymer systems, and will involve developing a new technique for measuring the relaxation time. Candidates should preferably have experience in the use of DSC.

Salary: £8,020 - £9,000 with a House 1A Scale for Research and Analogous Staff.

For further particulars and application forms The Secretary, The University, Regent Walk, Aberdeen AB9 8QZ, to whom applications (2 copies) should be lodged by 5 May 1988 (Ref No. EL/0311).

(74666)



CAMBRIDGE UNIVERSITY LIBRARY

DEPUTY LIBRARIAN

Applications are invited for the office of Deputy Librarian, which will become vacant on 1 October 1988 following the appointment of Mr R.P. Carr to the Librarianship of the University of Leeds.

Prospective candidates, who should be good honours graduates with wide experience in academic librarianship, may obtain further particulars from the Librarian, Cambridge University Library, West Road, Cambridge CB3 9DR, to whom applications (with the names of three referees) should be returned within four weeks of the date of this advertisement.

The salary of the Deputy Librarian is £20,470 p.a.

(74667)



University of Edinburgh and University of Cambridge

RESEARCH ASSOCIATES

Applications are invited for two Research Associates. The Research Associates will be involved in the development of a new technique for measuring the relaxation time. Candidates should have a PhD or equivalent qualification and experience in the use of DSC.

Appointments should be made by 1 May 1988.

The Research Associates will be involved in the development of a new technique for measuring the relaxation time. Candidates should have a PhD or equivalent qualification and experience in the use of DSC.

Appointments should be made by 1 May 1988.

(74668)

NERA is a leading international firm of economic consultants, which has over 175 professional economists applying micro-economic analysis in a wide range of consultancy assignments for private and public sector clients.

Our London office, which serves UK and overseas clients, is expanding and we are recruiting at research assistant level.

APPLIED ECONOMICS: - LIBRARIAN/ RESEARCH ASSISTANT

We are looking for someone to join our professional staff who has experience or demonstrable aptitude for work which will involve

1. Obtaining and helping to analyse economic and statistical data
2. Maintaining in good order the library of reports and publications
3. Guiding research staff in the use of information sources

Professional qualifications as a librarian and academic qualifications in economics and/or statistics would be valuable.

Administration continued

EDUCATION OFFICER (District Nurse Education and Training)

To be based at either York or London

We are seeking to appoint an Education Officer (District Nurse Education and Training) to be responsible for advising and formally visiting institutions approved to conduct courses in District Nurse Education and Training in a given geographical area.

The successful candidate must hold a qualification recordable with the UKCC as a District Nurse Tutor and have had experience in a senior position in an institution conducting courses leading to the District Nurse qualification.

Basic Salary: Whitley Council Administrative and Clerical Staffs Scale 24: £13,210-£16,745 p.a.

An opportunity to discuss this post can be arranged by contacting Miss B Robottom (Professional Officer - District Nurse Education and Training) - telephone 01-388 3131, extension 175.

Further details and application form from: The Personnel Department, English National Board for Nursing, Midwifery and Health Visiting, Victoria House, 170 Tottenham Court Road, London W1 - telephone 01-388 3131, extension 256.

Closing date for receipt of applications: Wednesday, 30th April 1986.

Interviews: mid/late May 1986.

(74883)

UNIVERSITY OF OXFORD Numerical Analysis Group

UCINA COORDINATOR

The University Consortium for Industrial Numerical Analysis (UCINA) is seeking a successor to Dr S. McKee who has been the Coordinator since UCINA's formation in 1979. Set up and initially funded by the SERC, UCINA has been fully self-supporting since 1984. Its aims are to make available to industry the numerical analysis expertise in universities and to provide university teaching and research in the subject area to the needs and priorities of industry. The Universities participating in the Consortium are Oxford, Bath, Brunel, Imperial College, Reading and Swansea.

The Coordinator visits industry and the universities and organises public meetings to identify worthwhile industrial problems and university staff who are prepared to contribute to their solution. The outcome may vary from a short consultation to a postdoctoral research project over several years. UCINA distributes reports on its work and organises one-day lecture programmes given at the sites of its industrial members.

Candidates should have had several years of research experience in numerical analysis and have a keen interest in industrial problems. The appointee will need to be a good organiser and communicator and will need to work closely with the Mathematical Modelling Group at Oxford. Participation in all of the Numerical Analysis Group's activities will be strongly encouraged, particularly in connection with the new Honour School of Engineering and Computing Science.

The appointment will be for five years on the University Research Staff salary scale 11X, in the range £12,280-£16,760 depending on age, qualifications and experience.

Further particulars from Prof. K. W. Morton, Computing Laboratory, 8-11, Keble Road, Oxford OX1 3QD. Tel. Oxford (0865) 54141, ext. 315. Applications, including full curriculum vitae and naming two referees should be sent by 30th April.

(74839)

WEA Berks Bucks & Oxon WORKERS' EDUCATIONAL ASSOCIATION

This lively District of WEA wishes to appoint a

TUTOR ORGANISER

to cover Reading and West Berkshire. The appointment will take effect from 1st September 1986 or as soon as possible thereafter. Candidates should have a strong belief in the value of adult education, as well as organisational experience. There should be a desire to extend learning opportunities to as wide a range of people as possible (for example, the unemployed, women, etc.). There should be a commitment to the WEA's Branch structure and a willingness to support and strengthen this. The person appointed will also contribute, as part of a team, towards the work of the District. Candidates should normally possess the minimum of a good first degree or equivalent, although organisational ability will be of equal importance. Experience of adult education would be a distinct advantage.

Salary scale £7,380-£12,845.

For application forms, further information and particulars, please write to Linda West, District Secretary, WEA Berks Bucks & Oxon District, 6 Brewer Street, Oxford OX1 1QN.

Letters of application and application forms should be returned to District Office by 2nd May 1986. Interviews will take place in the week beginning 26th May 1986.

(74847)

THE KEY to successful home-hunting can be yours for just £2.58 per line in the Accommodation Wanted columns in The Times Higher Education Supplement every week.

The Times Higher Education Supplement

Research

University of Bristol LONG ASHTON RESEARCH STATION (Agricultural and Food Research Council Grant-Aided)

SOCIAL SCIENTIST (Senior Scientific Officer)

AGRICULTURAL/BIOLOGICAL SCIENTIST (Scientific Officer)

2-year appointments

Applications are invited for a Senior Scientific Officer (SSO) and a Scientific Officer (SO) to work on the first collaborative research project to be funded jointly by the Agricultural and Food Research Council and the Economic and Social Research Council.

The successful candidates, who will be based at Long Ashton Research Station, will conduct a pilot study, over 2 years, into how attitudes, technology and policies interact in influencing changes in the practice of crop protection in the UK. They will work together, the social scientist evaluating the organisational and policy environment and the agricultural/biological scientist the technical and scientific options for crop protection. They will interview a range of agricultural, industrial and environmental organisations in order to assess attitudes and policies towards current and future trends in crop protection practices and research.

Applicants for the SSO post should hold a 1st or upper 2nd class honours degree, preferably in social sciences. He/she should also have at least 4 years postgraduate research experience, preferably including a Ph.D. degree, in an appropriate area of the social sciences and with proven experience in interviewing and survey techniques.

The SO will assist the SSO and applicants should hold an honours degree or equivalent qualification in general agriculture, biology or environmental science and show a special interest in crop protection methods.

Candidates for both posts should be willing to travel within the UK.

The appointments, which are renewable, will be on the scales £9,772-£12,653 per annum (SSO) and £6,199-£8,561 per annum (SO), will start on 1st September 1986.

Further particulars and application forms may be obtained from the Secretary, Long Ashton Research Station, Long Ashton, Bristol BS18 9AF. Closing date for receipt of applications is 30th April, 1986.

(74890)

Scientific Secretary (UK)

International Social Science Council
European Coordination Centre for
Research and Documentation in Social Sciences
(Vienna Centre)

The Economic and Social Research Council invites applications to fill the above-named resident post in Vienna from 1st September 1986 to 31st October 1988. Salary will be on the Research Fellow Range 1A scale between £8,020 and £10,865 and will, in addition, attract a single person's overseas allowance of £2,490 p.a.

Candidates will need to demonstrate experience in scientific administration (or research coordination) and will be expected to have successfully completed postgraduate research. Opportunities for continuing postgraduate research will be given to candidates who possess experience of collaborative research and/or whose research is in one of the centre's main areas of interest. Speaking and/or reading knowledge of French and another language would be an advantage, but is not essential.

Application forms and further details are available from Stefan Czerniawski at the ESRC, 160 Great Portland Street, London W1N 6BA, on receipt of a large (10" x 8") stamped s.a.s. Closing date for receipt of applications: May 1st 1986.

(74888)

ESRC ECONOMIC AND SOCIAL RESEARCH COUNCIL

Overseas

South Australia

DIRECTOR OF MUSIC

Collegiate School of
St. Peter (Anglican)
in Adelaide

On the retirement of the present Director of Music, a Director of Music is required from February, 1987 for the boys and boarders (13-18 years).

There are well equipped music departments in both junior and senior schools with teachers, in addition to the Assistant Director of Music and the Music Secretary, Department of Music and other music staff.

The school possesses two fine pipe organs, and preferential may be given to an outgoing organist for leadership services. In any case, musical leadership of the school is essential for this position.

The Director will be responsible for the continued development of music in the school in areas of: Church Music, Concert Band, Opera and Musical Theatre, Choir, Chapel Choir, School of Music, and other musical activities.

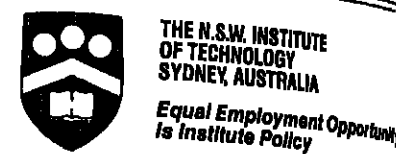
Applicants are asked to forward relevant personal, academic and professional details, together with the names, together with telephone numbers and tele-addresses, of three referees who would be useful. A covering letter should be included and consideration will be given with selection.

Excellent superannuation scheme. Salary will be in excess of A\$53,000.

The Headmaster, Dr A.J. Smith, will interview in London during May 1986. Applications (by airmail) addressed to: The Director of Music, Collegiate School of St. Peter, 100 South Australia Road, Adelaide 5006, South Australia.

(74844)

THE TIMES HIGHER EDUCATION SUPPLEMENT



PRINCIPAL LECTURER IN COMPUTER SYSTEMS ENGINEERING

The School of Electrical Engineering offers first and higher degree programs on a sandwich or part-time basis. The recently introduced course in Computer Systems Engineering is a major School initiative in the need for engineers with integrated software and hardware expertise. It strengthens existing commitments within the Faculty of Engineering to co-operative education.

Applications are invited for the new position of Principal Lecturer in Computer Systems Engineering. The appointee will exercise academic leadership within the emerging discipline and be responsible for the further development and implementation of the course. Close interaction with the School of Computing Sciences will be necessary.

Preference will be given to appropriately qualified applicants with relevant industrial experience and a demonstrated capacity for interdisciplinary co-operation. A well developed understanding of software engineering is essential while a knowledge of local industry would be advantageous.

Collaborative research, in fields such as software engineering, communication networks, industrial process control or microelectronic design, will be strongly encouraged.

Salary \$44,541.

Fares and contribution toward removal expenses are provided for overseas appointees. A Housing Loan Scheme is available plus opportunity exists to contribute to Superannuation. Approval may be given for undertaking limited consulting work.

An information sheet outlining duties and conditions relating to the positions is available from the address below.

Applications should include a detailed curriculum vitae and the names and addresses of three referees. In reply please quote reference No. 86/083 and forward by 6th May, 1986 to:

The Director,
N.S.W. Government Office,
66 Strand, London WC2N 6LZ.

(84)

Posts Overseas

East Europe

Lecturers in English

Bulgaria

Post 1: University of Sofia

Czechoslovakia

Post 2: Comenius University, Bratislava

Post 3: Charles University, Prague

Post 4: P.J. Safarik University, Presov

Post 5: Palacky University, Olomouc

Qualifications: candidates must be British nationals with a degree preferably in English or Modern Languages, a PGCE in TEFL (or an MA in Applied Linguistics) or equivalent, and a minimum of 3 years relevant teaching experience. An interest in Slavonic Studies is desirable for Bulgaria and a knowledge of Czech or German is desirable for Czechoslovakia. For all posts, preference will be given to single candidates. Salary: local salary plus a sterling subsidy of \$4,027 per annum.

Benefits: free or subsidised accommodation, medical scheme, superannuation contribution, fares and baggage allowance.

Contract: one year, from September 1986, guaranteed by the British Council, renewable.

Closing date for applications: 1 May 1986. Reference: 86 B 1-5 TH

For further details and an application form, please write, quoting the post reference number, to: Overseas Educational Appointments Department, The British Council, 66 Davies Street, London W1V 2AA.

The British Council

THE TIMES HIGHER EDUCATION SUPPLEMENT 11.4.86

Overseas continued

Applications are invited for the following posts:

PROFESSOR - Physical Education & Games Department - Ref: KAC/1/86/1

Applicants must be qualified Physical Educationists in possession of a Ph.D. degree or equivalent, and considerable teaching experience. They should also have been published in reputable journals. The successful applicant will be required to teach at both graduate and undergraduate levels, initiate plans for and supervise related research work in the department, and to supervise post-graduate projects.

PROFESSOR - Educational Foundations Department - Ref: KAC/1/86/2

Applicants must be educationists with considerable teaching and research experience at the University level, and must have considerable experience in publishing. The successful candidate will be expected to teach at both graduate and undergraduate levels, initiate plans for and supervise related research work in the department, and to supervise post-graduate projects.

ASSOCIATE PROFESSOR - (PROJECT MANAGER) - Appropriate Technology Centre - Ref: KAC/1/86/3

The Appropriate Technology Centre is one of the youngest but rapidly expanding Departments at Kenyatta University. Its main objective is to encourage research and training programmes dealing with various aspects of appropriate technology.

Applicants to the post of Project Manager will be expected to supervise a team of technicians and postgraduate students, provide technical advice and assist other members of staff in design and formulating research projects. Applicants should hold a Ph.D. or its equivalent in either Mechanical or Electrical Engineering or Applied Physics from a reputable University and should have several years of teaching and research experience at University level. Preference will be given to those with experience in the design of small scale equipment and structures.

SENIOR LECTURER - Physical Education & Games Department - Ref: KAC/1/86/4

Applicants must be qualified Physical Education Teachers with a Ph.D. degree in Physical Education or Sport, obtained from a reputable University. The successful candidate will also have had several years teaching experience at University level. Candidates with research degrees in the relevant area supported by research publications will also be considered.

The successful applicant will be required to teach and supervise research projects at both graduate and undergraduate levels in the Department of Physical Education and Games.

SENIOR LECTURER - Educational Foundations Department - Ref: KAC/1/86/5

Applicants must be holders of Ph.D. degrees in History, Philosophy, Sociology or Comparative Education, or in these fields as they relate to education. The successful candidate will be expected to teach at both graduate and undergraduate levels, initiate plans for and supervise related research work in the department, and to supervise post-graduate projects.

SENIOR LECTURER - Botany Department - Ref: KAC/3/86/11

Applicants should possess a Ph.D. degree in any one of the following areas:

1. Microbiology/Virology
2. Developmental Biology
3. Plant Physiology
4. Plant Pathology/Virology
5. Mathematical applications in Botany (Biotaxonomy, Biomathematics, etc.)

Applicants should also have several years teaching experience at University level. Those with teaching experience in a teacher training college will have an added advantage. The successful candidate will be expected to teach at both graduate and undergraduate levels, initiate plans for and supervise related research work in the department, and to supervise post-graduate projects.

SENIOR LECTURER - Zoology Department - Ref: KAC/3/86/16

Applicants must have a Ph.D. in Zoology plus several years' teaching and research experience. Evidence of publications, with reputable journals, will be an advantage. Experience in a teacher training college will be an added advantage. The successful candidate will be expected to teach at both graduate and undergraduate levels, initiate plans for and supervise related research work in the department, and to supervise post-graduate projects.

PROFESSOR - Department of Mathematics and Statistics

1. Physiology
2. Developmental Biology
3. Endocrinology
4. Terrestrial and Applied Ecology
5. Aquatic Biology
6. Parasitology and Immunology
7. Entomology
8. Mammalogy
9. Cytogenetics
10. Human Biology

LECTURER - Botany Department - Ref: KAC/3/86/13

Applicants should possess a Ph.D. degree in any of the following areas:

1. Microbiology/Virology
2. Developmental Biology
3. Plant Physiology
4. Plant Pathology/Virology
5. Mathematical applications in Botany (Biotaxonomy, Biomathematics, etc.)

PLEASE MENTION THE T.H.E.S.

when
replying
to
advertisements

Yarmouk University

The Language Centre of
Yarmouk University

Invites applications for the
position of

LECTURER

for its Service English Programme.

Applicants must hold: 1. a B.A. in English or a Modern Language, 2. an M.A. in TEFL or Applied Linguistics, and must have a minimum of 1 year post-M.A. experience.

Salary according to experience and qualifications.

The post includes a contractual load of 15 hours per week. Salary includes social security, health and life insurance.

Applications accompanied by copies of relevant academic certificates, transcripts, and a curriculum vitae should be addressed to: Lecturer in English, Yarmouk University, Irbid, 114 100, Jordan.

(74819)

Memorial University of Newfoundland

Department of Mathematics and Statistics

PROFESSOR OF STATISTICS

Applications are invited from suitably qualified statisticians for the position of Professor of Statistics, effective September 1, 1986, or as soon as possible thereafter. The successful applicant will have outstanding achievement in research and teaching, and will be expected to provide leadership in the future development of Statistics programs in the department.

Applicants should submit a full vitae and the names of at least three referees to: Dr. Bruce Shawyer, Head, Department of Mathematics and Statistics, Memorial University of Newfoundland, St. John's, Newfoundland, Canada A1B 3X9.

In accordance with Canadian Immigration requirements, this advertisement is directed to persons who are permanent residents and citizens of the United States and Canada.

Send nominations to the same address by June 1, 1986.

TESOL is an equal opportunity employer.

TESOL Executive Director Search Committee

c/o John F. Fasselov

Box 66

Teachers College, Columbia University

New York, New York 10027, U.S.A.

Send nominations to the same address by June 1, 1986.

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